# AMERICAN RAILROAD JOURNAL,

AMERICAN RAILINAD AUGUSTAL

# AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.



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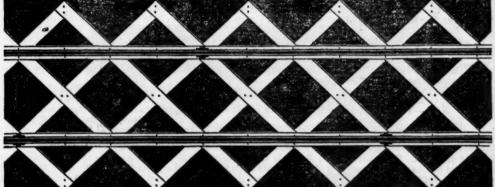
SECOND QUARTO SERIES, VOL. II., No. 5.j

SATURDAY, JANUARY 31, 1846.

[WHOLE No. 501, Vol. XIX.

R. CASEY, CIVIL ENGINEER, NO. 23 Chambers street, New York, will make survey estimates of cost and reports for railways, canals, roads, docks, wharves, dams and bridges of every description. He will also act as agent for the sale of machinery, and of patent rights for improvements to public works.

# HERRON'S PATENT AMERICAN RAILWAY



As seen stripped of the top ballasting

way Superstructure effect a large aggregate saving in the working expenses, and maintenance of railways, compared with the best tracks in use. This saving ways, compared with the best tracks in use. This saving is effected—Ist, Directly by the amount of the increased load that will be hauled by a locomotive, owing to the superior evenness of surface, of line and of joint. This gain alone may amount to 20 per cent. on the usual load of an engine.—2.1, In consequence of the thorough combination, bracing, and large bearing surface of this track, it will be maintained in a better condition than any other track in use, at about one-third the expense. any other trace in use, at about one-third the expense.—
3d, As action and reaction are equal, a corresponding saving of about two-thirds will be effected in the wear and tear of the engines and cars, by the even surface and elastic structure of the track.—4th, The great security to life, and less liability to accident or damage, should the engine or cars be thrown off the rails.—5th, The absence engine or cars be thrown off the rails.—5th, The absence of jar and vibration, that shake down retaining walls, embankments and bridges.—6th, The great advantage of the high speed that may be safely attained, with ease of motion, reduction of noise, and consequently increased comfort to the traveller.—7th, The really permanent and perfect character of the Way, insuring regularity of transit. To which may be added the great increase of travel, that would be induced by the foregoing qualities to augment the revenue of the railroad.

ERRON'S IMPROVEMENTS IN RAIL-way Superstructure effect a large aggregate sav-in the working expenses, and maintenance of rail-first instance, the undersigned will construct the track on his plan in the most perfect manner, with recent im-provements, for one thousand dollars per mile. And he will farther contract to maintain said track for the period of ten years, furnishing such preserved timber and iron fastenings as may be required, and keeping said track in perfect adjustment, under any trade not exceeding 100,000 tons per annum, or its equivalent in passenger transportation, for Two hundred dollars per mile per annum.\* To insure the faithful performance of this contract he will pledge one fourth of the cost of concontract, he will pledge one-fourth of the cost of con-struction, with the accruing interest thereon, regularly struction, with the accruing interest thereon, regularly vested, until the completion of the contract. So that a company, by securing payment to the undersigned at the specified period, will have only \$750 per mile to pay for the workmanship on the track, without any charge being made for the use of the patent, the subsequent payments, for maintenance of way, and amount withheld, being made from the large margin of profits that will result from its use.

[Simil Frances and Factories

from its use.

JAMES HERRON.

Civil Engineer and Patentee.

No. 277 South Tenth St., Philadelphia.

\*A general average of the repairs done on six of the most successful railroads in this country, for a period of from six to eight years' use has been found to exceed \$625.

The cost of the Patent track will depend on the quantity and cost of iron and other materials; but it will not exceed, even including the preservation of the timber, the average cost of the tracks on our principal railroads.

Generally, the timber structure, fastenings and workmanship, exclusive of the cost of the iron rails, will be from \$2,300 to \$4,000 per mile. On this structure, rails of from \$2,300 to \$4,000 per mile. On this structure, rails of from \$2,300 to \$4,000 per mile. On this structure, rails of from 40 to 50 lbs. per yard, will be equal in effect to

THE AMERICAN RAILROAD JOURNAL is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

RATES OF ADVERTISING.

One square One square One square " " One square " "
Professional notices per annum...

#### ENGINEERS and MACHINISTS.

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H. Burden, Agent. (See Adv.)
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S. VAIL, Speedwell Iron Works, near
Morristown, N. J. (See Adv.)
NORRIS, BROTHERS, Philadelphia Pa.

(See adv.) KITE'S Patent Safety Beam. (See Adv.) FRENCH & BAIRD, Philadelphia, Pa.

(See Adv.)
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Stockbridge, Mass.

BALDWIN & WHITNEY, Philadelphia, Pa.

phia, Pa.
THOMAS & EDMUND GEORGE, Phil-

DATENT HAMMERED RAILROAD, SHII Works have always on hand, of their own manufac-ture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material al-ways used in their manufacture, and their very genways used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the best spikes in market both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y.

The above spikes may be had at factory prices of chimney of engines on which they are

### FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

TO THOSE INTERESTED IN Railroads, Railroad Directors and Managers are respectfully invi-ted to examine an improved SPARK ARRESTER, recently patented by

presecuted JOHN F. WINSLOW, Agend.
Albany Iron and Nail Works, Troy, N. Y.
The above spikes may be had at factory prices, by
Mwn. E. Offin & Co. Boston. ja45

PATENT RAILROAD, SHIP AND BOAT

Spikes. The Troy Iron and Nail Factory keeps
constantly for sale a very extensive assortment of
Wrought Spikes and Nails, from 3 to 10 inches,
manufactured by the subscriber's Patent Machinery,
which after five years's successful operation, and now
almost universal use in the United States (as well)
as England, where the subscriber's Patent Machinery,
which after five years's successful operation, and now
almost universal use in the United States (as well)
as England, where the subscriber of the chinnel and the companies may be supplied with Spikes
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Orders for these Chimneys and Arresters, addressed to the subscribers, or to Messrs. Baldwin & Whitney, of this city, will be promptly executed.

N. B.—The subscribers will dispose of single rights, or rights for one or more States, on reasona-

their orders as early as practicable, as the subscriber is desirous of extending the manufeturing so as to keep pace with the daily increasing demand.

The subscribers will dispose of single rights, or rights for one or more States, on reason Philadelphia, Pa., April 6, 1844.

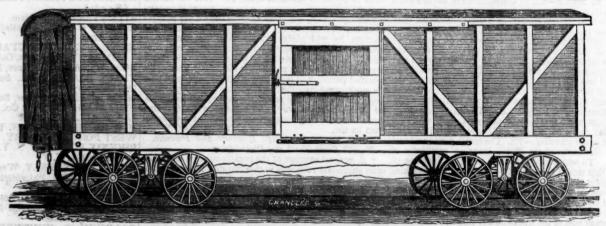
The letters in the figures refer to the article given in the Journal of June, 1844.

BENTLEY'S PATENT TUBULAR STEAM BOILER. The above named Boiler is similar in principle to the Locomotive boilers in use on our Railroads. This particular method was invented by Charles W. Bentiey, of Baltimore, Md., who has obtained a patent for the same from the Patent Office of the United States, under date of September 1st, 1843—and they are now already in successful operation in several of our larger Hotels and Prisons, for cooking, washing, etc.; for Bath houses, Hatters, Silk, Cotton and Woollen Dyers, Morocco dressers, Soap boilers, Tallow chandlers, Pork butchers, Glue makers, Sugar refiners, Farmers, Distillers, Cotton and Woollen mills, Warming Buildings, and for Propelling Power, etc., etc.; and thus far have given the most entire satisfaction, may be had of D. K. MINOR, 23 Chambers st. New York.

The article is complete in itself, occupies but little space, is perfectly portable, and requires no brick work, not even to stand upon. It is valuable rot only in the saving of time and labor, but in the economy of fuel, as it has been ascertained by accurate measurement, that the saving in that article is fully two-thirds over other methods heretofore in use. They are now for the first time introduced into New York and Boston by the subscriber, who has the exclusive right for the New England states, New York and New Jersey, and are manufactured by

FORCE, GREEN & CO. New York.

#### DAVENPORT & BRIDGES' CAR WORKS.



DAVENPORT & BRIDGES CONTINUE TO MANUFACTURE TO ORDER, AT THEIR WORKS, IN CAMBRIDGEPORT, MASS. Passenger and Freight Cars of every description, and of the most improved pattern. They lso furnish Snow Ploughs and Chilled Wheels of any pattern, and size. Forged Axles, Springs, Boxes and Bolts for Cars at the lowest prices. All order punctually executed and forwarded to any part of the country. Our Works are within fifteen minutes ride from State street, Boston—coaches pass every fifteen minutes.

Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, ja45

President of the Newcastle Manuf. Co.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand by
A. & G. RALSTON
Mar. 20tf
A South Front St., Philadelphia.

THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works

RAILROAD JOURNAL.

CUSHMAN'S COMPOUND IRON RAILS.
The Subscriber having made important improvements in the construction of rails, mode of guarding against accidents from insecure joints, etc.

—respectfully offers to dispose of Company. State

PASCAL IRON WORKS. —respectfully offers to dispose of Company, State Rights, etc., under the privileges of letters patent to Railroad Componies, Iron Founders, and others interested in the works to which the same relate. Com-THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H.

Mr. C. also announces that Railroads, and other works pertaining to the profession, may be constructed under his advice or personal supervision. Applicaitons must be post paid.

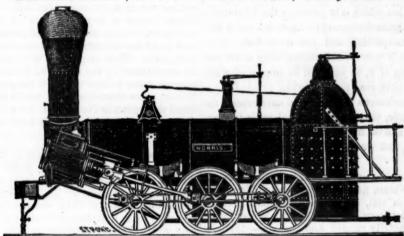
From 4 inches to 1 in calibre and 2 to 12 fee capable of sustaining pressure from 400 to 2 per square inch, with Stop Cocks, T., to ther fixtures to suit, fitting together, with joints, suitable for STEAM, WATER, GAS, LOCOMOTIVE and other STEAM BOILER.

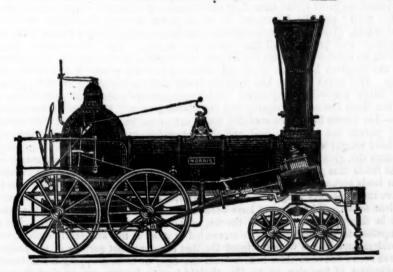


Manufactured and for sale by MORRIS, TASKER & MORRIS. archouse S. E. Corner of Third & Walnut Streets, PHILADELPHIA.

#### LOCOMOTIVE NORRIS' WORKS.

BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6 Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

Class 1, 15 inches Diameter of Cylinder, × 20 inches Stroke.

Class	1,	15	inches	1	Diameter	of	Cylinder,	×	20	inches	Stroke.	
46	2,	14		"	"		44		24	22	44	
66	3,	14	1	66	- 46		- "	X	20			
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66	5,	11	1	EE	44		at at	×	20	46	19 14	
66	6,	10	ì	"	"		"	X	18	. "	66	

With Wheels of any dimensions, with their Patent A trangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels for the Trucks of Locomptives, Tenders and Cars.

NORRIS, BROTHERS.

RAILROAD IRON.—THE MARY-LAND AND NEW YORK IRON AND Coal Company are now prepared to make contracts for Rails of all kinds. Address the Subscriber, at Jennon's Run, Alleghany County, Maryland. WILLIAM YOUNG,

TO IRON MASTERS.—FOR SALE.—MILL SITES in the immediate neighborhood of Bihuminous Coal and Iron Ore, of the first quality, at
Ralston, Lyoning Co., Pa. This is the nearest
point to tide water where such coal and ore are
found together, and the communication is complete with Philadelphia and Baltimore by canals and railways. The interest on the cost of water power railways. The interest on the cost of water power and lot is all that will be required for many years the coal will not cost more than \$1 to \$1 25 at the the coal will not cost more than \$1 to \$1 25 at the mill sites, without any trouble on the part of the manufacturer; rich iron ore may be laid down still more cheaply at the works; and, taken toget her these sites offer remarkable advantages to practical manufacturers with small capital. For pamphlets, descriptive of the property, and further information apply to Archibald McIntyre, Albany, to Archibald Robertson, Philadelphia, or to the undersigned, at No. 23 Chambers street, New York, where may be seen specimens of the coal and ore.

W. R. CASEY, Civil Engineer. W. R. CASEY, Civil Engineer,

VALUABLE PROPERTY ON THE MILL Dam For Sale. A lot of land on Gravelly Point, so called, on the Mill Dam, in Roxbury, fronting on and east of Parker street, containing

68,497 square feet, with the following buildings thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

to do any kind of work.

Pattern shop, 35x32 feet, with lathes, work bench-

es, &c.
Work shop, 86x35 feet, on the same floor with the

Work shop, 80x30 feet, on the same noor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, drums, pulleys, &c., large and small trip hammers, furnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x45 feet two stories high, with a shed part 451x20 feet.

feet two stories high, with a shed part 451x20 feet, containing a large air furnace, cupola, crane and

corn oven.

Store house—a range of buildings for storage, etc., 200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side of Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two stories.

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co., Chuadelphia.

CYRUS, ALGER & CO., South Boston Iro

Massachusetts and her Railroads.

We find in "Hunt's Merchants' Magazine." the advancement of the system; and as that valuable work may not reach all of our reapromised in a future number.

in our own noble city, arouse those who have the line, who have made the best country the very heart of Massachusetts, pushing her been prospered, and are so fortunate as to subscription ever made in this country, on a limprovements up the valleys of the Connecticut, and the Blackstone, to Springfield and own the property which would be so largely line of equal extent—and thus come in for a Northampton, and even to Worcester, but forty benefitted by an extensive system of railroads, share—the lion's share if you can—of the miles west of Boston. The steamboat, in to a wise and energetic action? The truth rich business of western Vermont, Canada, alliance with the canals, running down the is, that the people here appreciate so highly and that which is to pass over the Champlain natural watercourses, seemed destined to make their natural advantages, and consider them and Ogdensburg road? Here is a noble field Massachusetts a mere tributary; a vortex so far beyond competition, that they have felt for competition, and you must bestir your how could the manufacturer or the artisan or safe to rest quietly; or, to adopt an emphatic selves if you would secure, even a fair pro- the interior afford to pay five cents per mile phrase of one of the greatest statesmen of portion of it, as you will be convinced when for conveyance by the coach, or fifteen cents the age, upon another important question, to you have read the following article from a per mile a ton for the transit of his goods to pursue "a masterly inactivity," while our Massachusetts director, who once crossed the sister city, which, in 1830 contained only 81,Atlantic, visited the principal roads in Engeighty per cent., and made her the eastern
outlet of the prolific west? \$59,586,000, has advanced with almost un-them, and was again at his post in about sixty paralleled rapidity-her population in 1845 days. being 155,000, and her valuation, \$135,948,-900, or an increase of the former equal to 90, and of the latter equal to 128 per cent. in 15 setts in soil, climate or navigable streams. nal, before the war of 1812, and she remem-

A good beginning has been made. The late effort in favor of the New York and Erie railroad, shows what a few spirited and tonishing. Her harsh climate has invigoraliberal minded men can do, when they un-ted her hardy sons-her ungrateful fields despondency seemed to settle down upon dertake with a determination to succeed; even when the great capitalists and owners of real estate, who, more than any other class, are whale, have sought wealth in foreign climes, more prosperous lands. The grass began to to be permanently benefitted by such works, and become the great carriers of the union. invade the wharves and pavements of her give the cold shoulder to, and even ridicule With the funds thus gathered on the deep, or commercial centre, and the paint to desert the those who, with less money, have more public spirit, more disinterested liberality, and more good sense. But the ice has been arrested in their precipitous fall to the sea, sent or the promise of the future. She seembroken, and the tendency is onward, therefore and compelled to toil, to spin and to weave. ed to stand at the ancestral tomb, sorrowing now is the time for New York to come for. The boulders and ledges which defaced the that she could not partake of the progress of ward, and enter the lists with Boston, in a fair, honorable competition for the business of the north and west; which must, at no disimparting to her fields the fertility originally sunnier skies. But her spirit, though chilled, tant day, take its departure from Burlington, denied by nature. (Vt.,) for a seaport. What say the citizens of New York? Shall it go to Boston by the munication, and so essential has Massachu- east was about to requite the west for the dis-

"Progress of Railroads in Massachusetts.

"Nature has not been liberal to Massachu-Her territory, confined within narrow limits, as well as for New York merchants and bu- the Merrimac, no great rivers have their out-

and thence to Boston by that noble work, the rections from her metropolis; coaches and the rail, and gave to England and the world

Western-or, as the union road is to be wagons were soon in motion, connecting her termed, the Boston and Albany road? or with the interior, and Boston became distinfor January, an article on the "Progress of Railroads in Massachusetts," which may be read with advantage by those interested in read with advantage by those interested in country, to connect this city with the last ence. The genius of Fulton gave to the wamentioned road near Stockbridge? and then ter an ascendency over the land, and the fast aid in constructing a good road from North coach and the slow wagon were vanquished ders, we give it entire, with the remark that Adams, about 75 miles, to Rutland—that by the steamboat. Armed with the power of those who read this, will be very likely to from Pittsfield to North Adams, 18½ miles, North rivers the arteries of commerce, and look with some interest, for that which is is now under contract, and that from Rutland extending these great routes by navigable ca-Would not this article, if widely circulated structed immediately, by the people along mont and Canada on the morth, but pierced was opened whose attraction was irresistible; Boston, when steamboats and canals had reduced the transit to New York from fifty to

" Massachusetts had tried canals in advance of all the states; she was first in the race; she had surmounted the summit between the Merrimac and Boston, by the Middlesex cabers with pride that the commissioners of the is generally rugged and unequal-her win- Erie canal, before commencing that great It is quite time for New York capitalists, ters long and severe. With the exception of work, came to Massachusetts to learn the rudiments of canaling. But canals were not siness men of small means, to be aroused to lets in her ports; and the Merrimac, by its adapted to the rugged surface of the state from bars and rapids, gives little encouragement the intervening of ridges between Boston and to navigation; and yet with all these draw-the interior. The manufacturer, too, could backs, with no articles for export but ice and poorly await for the melting of a channel icegranite, her progress has been rapid and as-bound half the year. Between the close of 1825 and the beginning of 1831, gloom and have given them lessons of frugality and en- Massachusetts. Her sons left her to build up terprize-her forests have been moulded into rival states and cities, and her fairest and ships to pursue the cod, the seal and the richest daughters were courted away to grace in richer lands accumulating in frugal hands, fronts of her villages; her pride was in the they have made the very roughness of nature glories of the past, and in these she will ever subservient to art. The streams have been be rich-not in the achievements of the prefields have been lifted from their beds to build the age, or to be dropping a tear beside the the foundations of factories, or to line the old hive as it grew yearly darker, or crumwells and cellers of a growing population, bled away, while swam after swam left it for was not subdued; a new era was at hand; "But commerce and art demand easy com- art was preparing for another bound; the Central and Connecticut river valley route? setts deemed it to its progress, that she has coveries of Fulton, and to make steam more or by the way of Rutland and the Fitchburg bent herself to supply the absence of naviga-powerful of the presage of future problem waters. Commencing with a noble system of the control of route, which is sure to be constructed? or tem of town and country roads, she early gress, broke forth in the east when Robert still by Rutland and Bennington to Pittsfield, embarked in turnpikes, diverging in all distances and save to England and the world the finished railroad. main route from London to Edinburg, is soon more than one hour's ride from the cars. to bear a costly statue dedicated to the great genius of modern times-to the master-spirit has made such progress that it connects her ments, lightens their burthen of repairs.-

glowing zeal of Allen, who saw in advance to 128 per cent. a car from each town join the train as the caravan came along,' the enlarged intellect of not as rapid as that of Boston, has been strik-Sedgwick, and keen forecast of Degrand, ing also. In nearly all directions new struc-

its prototype in England, as we learn from the lips of Robert Stephenson himself. When he went to London, as the engineer of the Liverpool and Manchester railway, to obtain a charter, he was cautioned as to his testimony. 'Be sure,' said the counsel, 'when you testify before the committee, not to say your locomotive will make more than ten miles per hour. I know you honestly believe you can attain fifteen, but the public are not prepared for it, and will not believe it, and we may be laughed out of parliament.' Stephenson werp, and 30 per cent. in one year at Ostend, went before the committee; he proved his on the completion of single lines of railways. case, and claimed a speed for his machine of ten miles per hour, but when the opposing may be ascribed to seven distinct lines leadcounsel asked him, in his cross examination, with a significant smile, 'do you not believe you can run this fire-horse of yours even twenty, or five and twenty miles an hour? the conscientious man of science admitted the thought essential to secure the most favorable fact, and the dangerous admission of but half gradients, and great expenses were incurred mittee and nearly lost him the case. The the Worcester and Lowell railroads. Deep is often thrown upon a driving wheel, but in success of the Liverpool and Manchester trenches were dug and filled with broken first effort, and one of the first lines finished in Massachusetts at once entered the field. Her America, was the Quincy railroad; then followed the Worcester; the Lowell and the Providence opened in 1834-5; then the Easton, Boston and Maine, Western, Nashua, Norwich and Worcester, Taunton, New Bedford, Fitchburg, Old Colony, and a net-work of railroads now in progress, overspreading of railroads now in progress, overspreading the entire surface of the state, so widely dis-

"The progress of the state itself, although could not shield them from the shafts of ridi-tures meet the eye; value has been given to cule. The transition from darkness to light forests, quarries, mill sites, and produce in the was too sudden, the mental eye could not, for interior, and it is safe to predict that the cenmonths, accustom itself to the new field of sus of 1850 will give to the state a population of 1,000,000, and a valuation of \$500, "But the incredulity of Massachusetts had 000,000, and to Boston and its suburbs a population of 200,000, and a valuation of \$200,is doubtless due to commerce, manufactures and the fisheries; but the improved system of communication has given to them a vast impulse, and they have exerted a powerful influence on the system itself. Tusserene. in his report on the Belgium railroads, informs us that the tonnage of arrivals and departures increased 50 per cent. in two years at Antwerp, and 30 per cent. in one year at Ostend, If single lines have done so much, how much ing from Boston?

" Character of the Massachusetts Railroads. The art of constructing railroads has been and still is progressive. At the outset it was

The noble viaduct seminated that ere many months have elapsed more level. Surface roads conforming to the which spans the Tyne, at Newcastle, on the few points will be found in the old bay state, undulations of the country are thus constructed, and the absence of deep cuts and em-"The railroad system of Massachusetts bankments exposed to the action of the elewho is revolutionizing the whole intercourse great seaport not only with Albany and lake of the world; and Massachusetts owes him Erie, but also with the principal towns of all these the roadbed is usually formed twentya statue also for his discovery, which, more than the New England states, save Vermont, and four feet wide in the cuts, and fifteen on the aught else in modern times, makes her what is rapidly advancing across Vermont, and she is, and is to be.

"So chilled was her spirit by the adverse Champlain, northern New York and Cana"So chilled was her spirit by the adverse Champlain, northern New York and Cana"So chilled was her spirit by the adverse Champlain, northern New York and Cana"So chilled was her spirit by the adverse Champlain, northern New York and Cana"So chilled was her spirit by the adverse Champlain, northern New York and Cana-"So chilled was her spirit by the adverse current from 1825 to 1831, that she could scarcely see, in the twinkling star rising be yond the ocean, the beacon that was to light her onward. Wedded to the systems of the past, she could not realize that men and merchandize were to be whirled through her only and the companies of the past, she could not realize that men and merchandize were to be whirled through her only and the companies. In the mighty impetus thus given, the march of Massachusetts has been onward; well elevated above the drains, is now generally adopted as a foundation; all clay is removed, and water, the great enemy of rail-roads, courted away by a careful system of drainage. The stone sills, although at first there exists and Boston, the companies. In place of broken stone, a bed of gravel or sand well elevated above the drains, is now generally adopted as a foundation; all clay is removed, and water, the great enemy of rail-roads, courted away by a careful system of drainage. The stone sills, although at first granite hills and deep ravines, winter and other states, and Boston, the commercial ca-thought most durable, have been found liable summer, regardless of frost and snow; and pital, is pressing onward with renewed vigor. to break, and more costly and less elastic than those who first ventured to name the fire. In 1830, the population of Boston and the wood. To avoid a jar, the blacksmith places horse and the rail in her streets, journals and immediate suburbs, Charlestown, Cambridge, his anvil on wood, and such is the jar on horse and the rail in her streets, journals and legislative halls, encountered the smile of derision, and the name of visionaries and enthusiasts. There are those still on the stage who remember the obscure chamber and studied privacy in which the first measures were concerted to enlighten the community. The glowing zeal of Allen, who saw in advance to 128 per cent. sides, beneath which are hemlock sub-silfs-The second growth chestnut has been found most durable for ties, and the most approved distance is two feet six inches from sleeper to sleeper. Across these are placed the rails; these are rolled iron, averaging 18 feet in length, and weighing usually 56 to 60 lbs. per yard. The pattern in most general use has a flat base, with a flat or rounded head; the base rests on the sleeper, and is attached to it by spikes with heads lapping on the rail, 000,000. It would not be just, however, to ascribe, all this to the railroad system; a part is doubtless that the confined by clasp chairs of iron. At the outset, rails of various patterns were adopted. On the Worcester, a light edge rail of 39 lbs. to the yard was used, but was found inadequate, and which has been partially replaced with a rail of 60 lbs. to the yard. On the Lowell, the fish-belly rail of 35 lbs. to the yard has been tried, condemned, and replaced by one of 60, but as yet no good rails of the modern pattern and size have given indications of failure. A few of indifferent iron, whose upper surface had been rolled too thin may have occasionally split at the edge, but in other particulars even ten years' use seems to have made little or no impression, and the problem is still unsolved, how long will they endure?

"The engines now in use, and the proximity of the sleepers, favor the endurance. In of what he accomplished, startled the com- to reduce them below 30 feet to the mile on England, ten to twelve thousand lbs. weight lines, however, was soon appreciated, and stone for foundations, and stone sills, or slee- maximum, and on many lines the average is first effort, and one of the first lines finished in pers, were introduced at great cost on one of from five to seven thousand pounds only. the Western railroad once happily expressed The cost on the Fitchburg is materially less. ters. The Charles river bridge claimed un-

"Cost of Management.--When the Chevalier de Gerstner visited the United States in 1838, the average cost through the union his report to the British association, makes, as the result of a careful analysis of many English lines, an average cost of three shillings, or 72 cents per mile. In Massachusetts the average is not far from 65 cents per mile, while three of the more recent lines have actually run for the last two years, with a large traffic, at less than 40 cents per train a mile, and in all the lines the average size of the trains has greatly increased in addition. The first engines on the Liverpool and Manches ter line, from which our earliest patterns were copied, are stated in the report of Teisserenc to have run but seven thousand miles each year, at a cost of £400 for repairs, or 29 cts. per mile run. The Boston engines of the miles a year, at a cost for repairs of three cents per mile rnn. In the wear of cars the arrangement of depots, increase of reserved stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and cars, judicious purchase and propagation of full stock of engines and propagation of engines and en operatives, establishment of inflexible rules, have all tended to reduce the cost of managemore than fifty per cent.

Boston, including loading and unloading, tons, and the ratio of increase is ascertained, if too low, may undermine the prosperity of the improvement itself.

"The Policy of Massachusetts in her Char"The tendency of the rates has been raand the number of tons carried, 29,108. In ters.—The great question of the Warren and 1844, the Worcester company, in a case with

rail, have deterred directors and engineers less not far from the actual cost, which con- Charles river bridges, inspired Massachusetts start, aid them in their efforts.

be relied upon as certain. and the traffic again overflows. The ques-

" The Policy of Massachusetts in her Char-

from adopting it. As the first president of tinues to decline with the increase of traffic. with a salutary caution in granting her charit, he would not have for a railroad a hoop tacked to a lath. The only specimen in and rails, improved engines and cars, and less of years, an exclusive right, which, if en-Massachusetts is the upper section of the outlay on cuts and embankments, have, of forced, would have given the proprietors in Housatonic line, which runs in from Connecticut, and a new association is preparing to replace it with a heavy rail. The success and popularity of the system may be ascribed in a great degree to the choice of the rail. and their first choice of routes, and the busi- setts has reserved to herself the right of reness concentrated on their lines by an earlier ducing tolls, if the income exceeds ten per cent., and a right of purchase after twenty "Already railroads have decided advan- years, on payment of the principal and ten of running a train, was reported by him to be one dollar per mile run. In 1840, Professor Vignolles, an eminent English engineer, in winter. Canals in a long series of years ters. In a country where money produces winter. Canals in a long series of years ters. In a country where money produces have reached, or nearly attained, their high-less than in Massachusetts, she allows the in est point of perfection. Railroads, on the come to reach ten per cent. reserves the right contrary, are yet in their infancy, and yet to buy, but provides that in such event, she susceptible of improvement; have an indefi- will, if the road earns ten per cent., pay therenite capacity for trains, and with each increase for a capital that shall produce ten per cent. of trains the cost of transit diminishes.\* A at twenty-five years' purchase, or at the rate great further reduction in the cost of trans- of four per cent. per annum. She virtually portation by railroads in Massachusetts may stipulates to pay a premium of one hundred and fifty per cent. to each successful enter-"Increase of Traffic. - The ratio of increase prize, while Massachusetts is to pay par and on the lines of Massachusetts, has kept pace ten per cent. A successful stock, therefore, with the extention of the system. At a re- rises in England from one hundred to two duction of charges, and a diminution of cost, hundred and fifty, while in Massachusetts it the business has doubled at least once in eight years, and this increase promises to be pro-um. But the stimulus in England is too gressive. Occasionally, a disastrous year, an great; it has apparently crazed the whole present day, with six to eight wheels, four-fold the tractive power, and far lighter on the rail, perform with ease twenty-eight thousand porary reaction; but the vacuum is soon filled sachusetts it is sufficient to enlist the wary capitalist, and the enterprizing and spirited tion most frequently discussed by directors is, merchant, who expects an accession of trade how many new cars and engines shall we as well as large dividends; it has created a improved axles, chilled wheels, the trucks and elongated frames, soft metal boxes for the journals, and springs beneath and between the cars, have effected an almost equal improved axles, chilled wheels, the trucks and elongated frames, soft metal boxes for pots? At first, two or three acres were thought ample for a first class depot; a few tension lines, some of whom embark largely thought axis after this, the author was thought expensed in the new lines as proprietors, as well as conprovement. The training and discipline of years after this, the author was thought ex- in the new lines as proprietors, as well as contravagant in advocating twenty for the Wes-tractors, and both directly and indirectly, im-

"One topic remains untouched, which has and preparation of fuel, improved rails and adjustment of track, and increase of traffic, have all tended to reduce the cost of management, and it may be safely stated that the cost of conducting the business has been reduced more than fifty per cent.

The conducting the deposition of the country, a liberal provision for depot of conducting the business has been reduced more than fifty per cent.

The conducting the cost of reduced presset, but it within this article. It is a topic of deep interest. Mountains may be tunnelled or surmounted, deep rivers may be bridged, commercial cities provide extensive water and remote regions united by iron bands, but In the printed report of the directors of the fronts, miles of stores, docks, piers and levees tariffs of charges may be interposed, more im-Boston and Worcester railroad company,\* for the reception of navigation: and when dated April, 1840, it is stated that the cost of trailroads are to receive and deliver, as they transporting a ton between Worcester and now do annually at Boston, half a million of prohibit trade, or throw it on rival cities; or Boston including loading and unleading.

pidly downward, and with beneficial results, 1844, the Worcester company, in a case with the Western company as to tolls, claimed that the Cost, in 1843, was \$1 11 per ton, amount carried, \$8,324 tons; but the Western company would concede but 57 cents per ton, objecting to large items of deterioration and repairs, as belonging to prior years. The medium between them is 88 cents per ton, doubt—

In 1845, the accounts of the Fitchburg railroad company indicate that the cost of transporting freight, exclusive of loading and unloading, will be less than one cent per ton a mile.

With respect to the repairs of the road and track, the annual average cost in Massachusetts, has been he frequently and the constant at least one-half, demonstrates the power to carry with profit at half the original rates; reduced that the constant at least one-half, demonstrates the power to carry with respect to the repairs of the road and track, the annual average cost in Massachusetts, has been half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry with reduction of the cost of transit at least one-half, demonstrates the power to carry

		P mg	NGLISH	Address on Francisco	THE PARTY				,, ,, ,,	A MINING AND
THE THE PARTY OF T	15	raised	net bee	of.	Part .	in nths bal-		d at last	1 1	NEW AND PROPOSED   Shar
	-	Ta .	in pound be raiso	dates sheets.	king mont	ES, i	-	cing.	1 . 1	
	- 6	20	te b	pag a	383	ME 8		ı d	1 .	5 Aberdeen
	opened.	in o	to to mon	.= 0		for six	share	cent.	share.	Barnsley Junction 200
NAME OF RAILWAY.	0	P. P.	d d d	sums, in ded at balance	of we is for si tred in theets.	ta in	4	1 20	ha h	Belfast and Ballymena 385
	2	ze ze	or Se	ala ala	-5-0	60,00	92			Blackburn and Accrington. 400.
	Miles	la la	l'a	200	ada	at a sh	er	Per	no o	
		tha	otal sums thorized loan or n	pe	Set no	To Inn	<u>A</u>		Bi G	Solt., Wigan and Liverpool 800.
		Total sums, authorized t by shares.	Toani	Total expen	Cost of pounds fo as stated lance shee	Total eu pounds, fo as stated i ance sheet	J. 8. 0	£ s. d		Caledonian 1,800.
Arboath and Forfar	15	102,000	35,000	138,870			0 12 6	2 10	0 25 2	Cambridge and Lincoln 1.250.
Birmingham and Gloucester		1,187,500	407 336	1,500,806	39 261	53,203		2 10		
		161,700	365,470	481,452		00,000		4 10		Chester and Wrexham 120
Brandling JunctionBristol and Gloucester	371	400,000	211,000	657,825	*****			nihil.	30 5	
Chester and Birkenhead	141		143,170	518,989	5.956	13,148	0 10 (			Direct Northern to York 4,000,
Oublin and Drogheda	31	450,000	150,000	582,254	0,000	10,140	0 10 1	nihil.	6011	
Oublin and Kingston	6		152,200	349,736			9 0 0		0 100 25	Dublin and Belfast 950,
Oundee and Arbroath		200,000				6 000				Dundee and Perth 250,
Ourham and Sunderland			49,445	153,416	2,969	6,993				Ely and Bedford 270
	18		124,055	270,392	9,889	17,702		nihil.		
ast County and North and East		4,443,200				118,726			. 45 5	
dinburg and Glasgow		1,125,000	375,000			55,866				
lasgow, Paisley and Ayr	51	937,500		1,071,258	12,446	36,736				
lasgow, Paisley and Greenock	221		216,666			23,447				
rand Junction	104					195,080		10 0	0 100 23	
rand Junction	45	969,000	581,017	1,307,487	12,201	36,189	3 0 0		0 100 23	
reat Western	2211	4,650,000	3,679,343	7,445,689	143,279	440,046	4 0 0	8 0	0 80 21	Leeds and Dewsbury 400,
Iartlepool	151	438,000	155,540	719,205				8 0	0 100	
eicester and Swannington	164	140,000				6,317	1 5 (		0 50	
iverpool and Manchester		1,209,000				141,252			0 100 214	
lanelly	02	200,000		221,624	01,000	121,000	1 00			
ondon and Birmingham	0001	6 974 076	000 045	C C14 005	00 419	456,997		10 0		
ondon and Blackwall	2024	804,000	920,040	0,014,000	15,000	23,870	0 9 0	1 10		
and Drighton	24	1 025 000	200,000	1,768,851	10,978	120,070	1 10 0			Manchester, Bury and Ross 300,
ondon and Brighton	96	1,935,000		2,637,753	30,490	130,156	1 10 0			Manchester, Bury and Ross 300,
ondon and Croyden	81	550,000		761,885		10,545	0 8 0			
ondon and Greenwich	3	759,383		1,040,930				nihil.		
ondon and South Western	924	2,222,100		2,604,405		190,631		10 0		
Ianchester and Birmingham	31	2,100,000		1,923,699	15,397	58,162				
fanchester and Bolton	10	778,100		773,743		21,140	2 2 (			
fanchester and Leeds and Hull	87	2,937,500	,943,932	3,921,593	46,653	156,761		81. a 10	60 17	
lidland railway	1791	5.158.900	719.630	6.279.838	75,227	276,129		6 0	0 100 19	Shrewsbury and Gd. Junc. 400,
ewcastle and Carlisle	61	878,240	188,563	1.135,069	26,499	46,745		5 0	0 100 11	
ewcastle and Darlington	23	500,000		405,728						7 Trent Valley 900.
ewcastle and North Shields	7	150,000		309,629	8,943					West London Extension 64.
orth Union	39	739,201		1,028,593		37 704	2 10 0			West Yorkshire 1,000,
aris and Orleans		1,600,000		1,978,415	AR, 100	01,104	0 16 0	8 0	0 90 4	Whitehaven and Maryport 100,
aris and Rouen			400,000	1,970,410		01 181		8.0	0 20 4	PRENCH RAILWAYS.
nesten and Warre	84	1,440,000	180 050	077 -0-	31,247					
reston and Wyre	19	830,000	179,852	355,161	4,191	7,066		4 0	00 3	Boulogne and Amiens 1,500,
heffield and Manchester		1,150,000		951,455	11,895	14,876	******	ninil.	8713	Central of France 1,280,
outh Eastern		2,996,000				139,042		3 1	33 4	Lyons and Avignon 2,400,
aff Vale	30	465,000	195,000		9,115	22,692	1 17 7	3 15	100 10	Orleans, Tours & Bordeaux 2,000,
lster	25	519,150	20,000	348,626	5,401				32 5	Paris and Lyons 2,500,
armouth and Norwich	204	187,500	62,500						0 20 2	Paris and Orleans
ork and N. Mid, and Leeds and Selby	28	1,062,500	167,500			75,474		10 0	0/ 50 11	Paris and Rouen 1,400,
		1-1101		11	1-700					

a					AM A	ND MI	SCELLANEOUS C	COMPA	NIES.			- 1.	100	116
Stea	m and I						NAME OF COMPA	NY.	Num. of		Amount		Last	Presen
NAME OF COMPANY. {	Num. of shares.	Am't. of share.	Amount paid.	Div. p.c. per ann.	Last price.	Present price.		1	shares.	share.		per ann.	price.	price.
			1	-		_	Loughborough			1424	1424	70	1140	- 00 3
Anglo Mexican Mint			10		154	15%	Monmouthseire		2,409		100		160	160
Anti Dry Rot	10,000		181		2		Melton Mowbray			100	100		117	117
Australian Trust Company	5,700		35		341		Mersey and Irwell			100	100	10		1
General hteam Navigation	20,000	15	14	10	271		Macclesfield		3,000		100	21	15	15
Gt Western Steam Pa			100		25		Neath			100	100		365	365
Metropolitan Wood Pav	15,000		6	5	64		Oxford		1,786		100		505	en
Patent Elastic Pav	10,000		1	5	11		Regents or Loncon		21,418		334	24	25	- 25
Peninsular and Oriental	11,493		50	7	644	65	(Shropshire			125	125	6	120	120
Ditto	3,200	50	40	7			Somerset coal		800	150	150	74	123	123
Polytechnic Institution				6			Stafford and Worces	ster	700	140	140	25	480	480
Reversionary Int. Soc		100	100	44	104	104	Shrewsbury		500	125	125	12	230	230
R. Mail Steam Packet	15,000	100	60		364	37	Stourbridge		300	145	145	14	360	360
South Western Steam	4,000	25	5		-		Stroudwater		200	150	150	19	John J	1
Ship Owners' Towing	3,000	10	71	10	15		Swansea			100	100	15	240	240
Thames Tunnel	4,000	50	50				Severn & Why & R	ail Av.	3,762	264	264	54	30	30
University College	1,500		100		1		Trent and Mersey		2,600		50		495	BREY
Carron of the same	-	nals.					Thames and Medwa	V	8,149		194		10	10
Ashby de la Zouch	1,432	1113	l av.	1 4	, 70	, 70	Warwick and Birmi	ingham.	,000	100	100	104	167	
Barnsley	790	100	100	14	180	180	Warwick and Napto	on	980	100	100	81	122	1
Birmingham, 1-16 share	3,000		79	10	150	160	>		Water	Work	Sa.	1 1 1 1 1 1 1	1979	
Do. and LiverpoolJunction			100	10	134	134	Birmingham		4,800	1 25	, 25	1 31	28	1-28
Coventry	500	100	100	20	365	365	East London		4,433		100	8	223	225
Cromford			do.	24	250	250	Grand Junction		5,500		41 2-3	71	88	90
Darber	600		do.	9	105	105	New River L. B. Ar		1,500		100000	21	100 3	0.8
Derby			do.	32	440	440	Manchester and Salf		6,486		30 -	8	57	57
Forth and Clyde			401		440	440	Vauxhall, lt. S. Lone		1.000		100	5	55	55
Grand Junction			100	7	162	1611	West Middlesex	1011	8,294		634		126	127
			do.			1	Svest Minniesex	*******		cks.	1 001	01	1120	12.01
Grand Surrey			do.		8	8	Commercial Dock			51100	1100	1 3	1 80	1817513
Gloucester and Rerkley	5,000		150	8	185	185			1,000	sto.	100	54	137	ald to
Grantham.!		150	474	3	40		East and West India		3 090 914		1	41	1144	115
Lancaster						40	London		3,238,310		11 6 10			
Leeds and Liverpool	2,897		100	34	640	640	St. Katharine		1,352,759	stc.	-	5	116	171
Leicester	545	)	140	1 9	139	139	Southampton		7,000	50	50	1	100	Contract of the

	WANTE OF PATTECARE	L'ngth	Cost.	Loans	Number	Paid		43. ome.	Div.	Inco		Div.		45. ome.
AUTHOR THE	NAMES OF RAILROADS.	miles.	COST.	debts.	shares.	share	Gross.	Nett.	per cent.	Gross.	Nett.	cent.	Gross.	Nett.
Maine.	1 Portland, Saco and Portsmouth	50	1,200,000				89,997	47,166	7	131,404	62,172			
Ham.	2 Concord	35	750,000									12		
Anss.	3 Boston and Maine	56	1,485,461				178,745	68,499	6	233,101	86,401			
	4 Boston and Maine extension	171	455,703	unfin.										
	5 Boston and Lowell	26	1,863,746				277,315	144,000	8	316,909	147,615			
	6 Boston and Providence	41	1,886,135	none.	18,600	100	233,388	110,823	6	282,701	156,109			
	7 Boston and Worcester	44	2,914,078		,	1		162,000		428,437				
	8 Berkshire	21		not stated		1				17,737				
****	9 Charlestown branch	1						11,000	13		13,971			
	10 Eastern	54	2,388,631				970 569	140,595	6	337,238				
****	10 Eastern	50	2,300,031						0		00 005	0		
****	11 Fitchburg	50	1,150,000	justopn'd			04.000	******		42,759	20,030		******	
****	12 Nashua and Lowell	141	380,000						8	94,588		10	******	
	13 New Bedford and Taunton	20	430,962				50,671	24,000	6	64,998	24,000			
	14 Northampton and Springfield		172,883											
	15 Norwich and Worcester	66	2,290,000	900,000	16,535	100	162,336	24,871		230,674	99,464			
	16 Old Colony		87,820											
	17 Stoughton branch	4	63,075											
	18 Taunton branch	111						20,000	8	96,687	20,000	8		
	19 Vermont and Massachusetts		200,000					,						
	20 West Stockbridge	3	41,516	200		100	******					4		
	21 Western, (117 miles in Mass.,)	150			20,000	100	577 000	284,432		752 752	430 670	3		
****	00 Wennester brough to Milburg		7,686,202	4,000,202	30,000		313,002	204,402		100,100	100,010			******
****	22 Worcester branch to Milbury	34	42,000				*****	******		150 000				
0	23 Housatonic, (10 months,)	74	1,244,123	100.000	10000		*****		****	150,000			******	
Conn.	24 Hartford and New Haven	38	1,100,000		10,000	100	*****	******	• • • •			0	******	•••••
****	25 Hartford and Springfield	251	600,000			100	******				mo 04-		******	
	26 Stonington, (year ending 1st Sept.,).	48	2,600,000		13,000	100	113,889			154,724	79,845		******	
. York.	27 Attica and Buffalo	31	336,211				45,896	7,522		73,248	48,033			*****
	28 Auburn and Rochester	78	1,796,342		14,000	100	189,693	112,000		237.667	[152,007]	6		
	29 Auburn and Syracuse	26	766,657				86 291	27.334		96 738	52.544	6		
	30 Buffalo and Niagara	99			1 500	1003								
	31 Erie (446 miles)	20	5,000,000		1,000									
	31 Erie, (446 miles,)	53	.,,000,000					48,000		196 090	59 075			
	33 Harlem	99	0.050.000	MEO 000				40,000						
****	34 Hudson and Berkshire	26	2,250,000		30,000	1					1 700			
****	of fridason and berkshire	31	575,613			50					1,100			
****	35 Long Island	96	1,610,221	392,340				******		153,456				
****	3t Mohawk and Hudson	17	1,317,893	400,000	10,000	100	69,948	58,780		79,804				
	37 Saratoga and Schenectady	22	303,658				42,242		1	34,666				
	38 Schenectady and Troy	201	640,800				28,043			32,646				
	39 Syracuse and Utica	53	1.115.897	none.	16.000	621	163,701	72,000		192,061	120,992	8		
****	40 Tonnawanda	43	727,332				76,227			114,177	75,865	5		
	41 Troy and Greenbush	6	180,000											
	42 Troy and Saratoga						44 395	21,000		38.502	9,971			
	43 Utica and Schenectady	78	2,168,165					180,000		331,932		8		
	44 Camden and Amboy	61	3,200,000	Hone.	20,000	100	620 220	383,880	-	784,191	404 956		******	
oracy	45 Elizabethtown and Somerville	00	5,200,000				002,032	100,000		104,131	101,000			
****	46 Novy Torons		500,000				******	******		******				*****
	46 New Jersey	34	2,000,000					******		f			******	******
	47 Paterson	16	500,000							******		6		******
	48 Beaver Meadow	-26	1,000,000											
	49 Cumberland Valley	46	1,250,000					1						
	50 Harrisburg and Lancaster	36	1860,000	645,929									77,538	9,988
	51 Hazleton branch	10	1,000,000 1,250,000 1860,000 120,000											
	52 Little Schuvlkill	29	900,000											
	53 Blossburg and Corning	40												
	54 Mauch Chunk	9	100,000				******			******				
	55 Buck Mountain	4	79,000		******					*******				
	56 Minehill and Schuylkill Haven	10.		OF 000	7010	E0.	******		10			10		
****	57 Norristown	191	396,117	25,000	7,019	50	******		125	******		120	******	
****	57 Norristown	20	800,000							******			******	
****	58 Philadelphia and Trenton	30	400,000								*****		******	******
****	59 Pottsville and Danville		1,500,000											
****	60 Reading.	94	9,457,570	7,447,570	40,200	50		,		597,613	343,511			
****	61 Schuylkill valley	10	1,000,000							******				******
	62 Williamsport and Elmira	95	400,000				20,000							
	63 Philadelphia and Baltimore	93	4.400,000				43,043	200,000			210,000			
alaw're	b4 Frenchtown	16	600,000											
Maryl'd	65 Baltimore and Ohio, (1st Oct.) 66 Baltimore and Washington	188	7,742,410	1.153.709			575.235	279,402		658.620	346.946		738.603	374.769
	66 Baltimore and Washington	38	1,800,000	,-50,100			177 992	71,691		212 129	104 529		208 813	95 094
	67 Baltimore and Susquehanna.	58	3,000,000					1-,001		1.00			,010	100,000
	by Wrightsville. York and Gettyshuro	121	500,000											
irginia	69 Greensville and Roanoke	18		200 544	0.000	100				95 900	6.074	0		******
Parrier	70 Petersburg	69	284,433	07,044	2,000	100	******			100,000	70,074	0	******	******
	71 Portsmouth and Roanoke	63	969,880	63,000	7,690	100	******	******		122,871	12,898	0		******
****	79 Pichmond Producished	781	1,454,171				*****	******		105.00	05.000			******
****	72 Richmond, Fredericksb'g and Potomac	76	800,000	*******						185,243	85,688			
	73 Richmond and Petersburg	221	700,000											
****	74 Winchester and Potomac	32	500,000											
N. Car.	75 Raleigh and Gaston	841	1,360,000											
	76 Wilmington and Raleigh	161	1,800,000									5		
S. Car.	77 South Carolina	1136	E CM4 445											
2	78 Columbia	66	5,671,452		34,410	75	201 464	77,456		532 871	140 196			
eorgia	79 Central	1901	2,591,723	440000	00 510	1100	เดลซ ๕๑๓	02 100		200 405	190 704	1 1		
	80 Georgia	1471		230000	20,510	100	040,002	150 305		049,000	148 500		******	******
Y	81 Montgomery and West Point	00	2,650,000	180 000		100	240,026	158,207		25,000	15,023			******
****	STATE OF THE PARTY AND THE POINT	89	500,000	170,000	*****	100				35,000	15,000		******	
	SOIT amin stem and Old					1	Carried to 1							
Cent'ky	82 Lexington and Ohio	40	450,000				******							
Cent'ky Ohio.	82 Lexington and Ohio	40	400,000					1						
Cent'ky Ohio.	82 Lexington and Ohio	40	400,000					1			•••••	• • • •	24.984	3.280
Cent'ky Ohio.	82 Lexington and Ohio	40 40 56	400,000	50,000				1		•••••	•••••	• • • •	24.984	3,280

Correspondents will oblige us by sending in their communications by Tuesday morning at latest.

#### PRINCIPAL CONTENTS.

#### AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y.

#### Saturday, January 31, 1846.

#### The Gauge Question.

This important question continues to occupy considerable attention in England. It appears to excite France. little interest elsewhere, and the rival parties are now making experiments under the observation of the purpose, probably, of renewing the controversy before parliament, during the ensuing session.

A series of experiments were commenced, on the trifle, being quoted this week at £12 a £11 10s. Great Western road, on the 16th December, in pres ence of the commissioners, Sir F. Smith, and Promade with the locomotive Lxion, driven by Mr. Bru-Berkley, the champions of the narrow guage, on the platform, with eight carriages, six first and two second-class attached, weighted with iron, to a gross load of 81 tons 13 cwt., exclusive of engine and tender, which may be taken at 32 tons more, and equal to a train of 342 persons.

They left the first post beyond Paddington at six performed in 1 hour and 4 minutes, or at the rate of 51 miles an hour; and the return in 1 hour 14 min- a £11 10s. being continued.

seconds, which is greatly inferior to the results on the broad gauge. These, however, are not fair results on either of them, as better time has been made, on other roads, and can be made on almost any road in England, than that upon the great North-of-Engin our next number, and further accounts as they come out.

#### The Iron Trade.

eral thousand tons were offered at 72s. 6d. cash, and quotations for that day were 70 to 72s. cash.

The London quotations on the 5th December were, bar £9 to £9 5s.; rails £12.

In France the price of iron is very high. "White ceived. The manufacturers of wrought iron had from £16 to £16 10s.

a "government commission on the guages," for now merely nominal quotations, as the trade is in upon a few men of wealth just in the ratio las they

fessors Barlow and Airey. The first experiment was The manufacturers, however, still ask 85 to 90s. natural relative position among the cities of the union. and on the 23d, sales were made at 77s. 6d.; rails nel and Mr. Gooch, C. E., with Mr. Bidder and Mr. remaining the same in London on the 26th, as last chants would not give £16.

same as for several weeks past, the quotations £12

ments in its manufacture upon the most improved plans, will not only be safe but lucrative.

large number of gentlemen interested in the river We have received by the Hibernia our regular route of the railroad to Albany. We were late at files of the London Railway and Mining Journals the meeting, and therefore did not hear the first part to the 3d inst. The Mining Journal of 6th Decem- of it; nor were we aware that copies of it were to ber says, in relation to the iron trade, that the Glas- be had at the meeting, or we should have obtained gow pig-iron trade was very dull on the 2d, that sev- one. We have now, however, through the politeness of Mr. Jervis, a copy of it, and shall give it 1000 tons were sold at that price, and the Glasgow an early insertion in the Journal, as we have those which have preceded it from time to time, upon the same subject, viz: "a railroad between New York and Albany."

We have, for many years, advocated the construccast metal" was sold on 29th November, in large tion of a railroad, of the best-the very best-kind, quantities, for £7 5s. to £7 10s.; and £7 10s. and between the commercial and political capitals of the £7 15s, were offered for two other lots of 400,000 state, even when many of its present advocates and 500,000 kilogrammes each, which were not re- laughed at the idea of its paying its working expenses -much less a dividend to its stockholders; but such announced their intention of advancing the price has been the apathy-we might almost say the wilful blindness, and indifference of those in this city In the same journal of the 13th, we find that the who were to be most benefitted by it-we mean the price of pig-iron had advanced; Scotch to from 75 to property holders and business men, that we have for 80s., and Welsh to 77s. 6d., with purchasers. Rails the past few years almost ceased to refer to it, except continued at £12. The high prices continue in to publish the reports and letters, which have been put forth at different times by those interested in the Dec. 20th.—The manufacturers continue to ask different routes, by way of keeping the people ap-80 to 90s. for Scotch pig, which are, however, just prized of the fact that light was beginning to dawn the hands of speculators, who are offering for 72s. thought their local interest along the line was to be 6d., with very little doing, and rails have fallen a affected by the movements and progress of other lines-not in proportion to the vast importance of The Glasgow market on the 19th was very quiet, this particular link in the great system, by which, only a few sales, varying from 72s. 6d. cash, to 76s. and from which, mainly, this city is to maintain its

A want of strength on the interior line, and the opposition of those interested along the river, have week. In France, on the 18th, at St. Dizier, large been sufficient to prevent the few, at each termilots brought £16 10s., and small lots brought £16 nus of the line, who really desired the road to 16s., though little was doing in Paris, as the merthird party comes forward, after years of "mas-Jan. 2d.—There has been very little change in the terly inactivity" for any good to the cause, and pig-iron trade of Glasgow for the month past, as show a disposition to force a road through, in will be seen by the following report from a Glasgow connection with a short, but not thus far properly minutes past ten, with 24 gentlemen on board. The paper of 30th December, though the fluctuations constructed road now in use, we find those gendistance from Paddington to Didcot is 53 miles, and have been very great during the year, varying from themen, who are abundantly able to make the the distance from the first mile-post, 52 miles, was 57s. 6d. to 120s. Railway bars remain about the road, but who have heretofore been either in opposition, or apparently indifferent to its construction, advocating a line of road directly along the margin utes. The second day's trip from Paddington to Didcot, with seventy tons, was performed in 1 hour to the French legislature modifying their tariff re-Didcot, with seventy tons, was performed in 1 hour to the French legislature modifying their tariff regarding foreign iron. Cash transactions, however, have been very few. In the present state of our market, three or four thousand tons forced, for cash, miles long, narrow guage, on the 30th December, in miles long, narrow guage, on the 30th December, in presence of Professors Barlow and Airey, of the commissioners; Messrs. Brunel, Saunders, and Seymour Clarke, of the broad guage; and Messrs. Hadson, Bidder, Gooch, Cabry, Harrison, Harding, and Parkson, Bidder, Gooch, Cabry, Harrison, Harrison son, Bidder, Gooch, Cabry, Harrison, Harding, and quired. The sellers were open for farther contracts at one shilling advance. The price we quote at 72s. was a new one, built by Mr. R. Stephenson, with six 6d. It may be interesting, at the close of the year, wheels, seven feet four inches high to the top of the boiler, with cylinders ontside; it had been in use only about a week, in experimental trips; with a large some of the fluctuations which have taken place:—January, price 65s. to 70s.; February, 90s.; will accommodate the most people at the lowest only about a week, in experimental trips; with a large some of the fluctuations which have taken place:—January, price 65s. to 70s.; February, 90s.; will accommodate the most people at the lowest only about a week, in experimental trips; with a large some of the fluctuations which have taken place in relation to it, and that is, that it be located where it will accommodate the most people at the lowest only about a week, in experimental trips; with a large some of the fluctuations which have taken place in relation to it, and that is, that it be located where it will accommodate the most people at the lowest only about a week, in experimental trips; with a large some of the fluctuations which have taken place in the some of the fluctuations which have taken place in the lowest of the fluctuations which have taken place in the lowest of the fluctuations which have taken place in the lowest of the fluctuations which have taken product the fluctuations which have taken place in the lowest of the fluctuations which have taken place in the fluctuations which have taken place in the lowest of the fluctuations which have taken place in the fluctuations which have taken place only about a week, in experimental trips; with a load of fifty tons only, or 20 tons lighter than the logical lightest load on the Great Western. They did not, however, succeed in accomplishing much over 40 miles an hour, or 43 miles in 1 hour, 13 minutes 53 seconds, which is greatly inferior to the results. per ton.—Glasgow Nat.

It may, we think, be safely concluded that iron will be in good demand, especially for railways, and for ship-building, for some years, and that investing the control of the engineer we give him to the same of the engineer we give him to the same of the engineer we give him to the engineer we have a support to the engineer we give him to the engineer we have a support to the engineer we give him to the engineer we have a support to the engineer when the engineer we have a support to the engineer when the engin mendation of the engineer we give him full credit, as we do also for the useful information which he has embodied in his report; and we congratulate the cause upon the accession of so able a member of the land. We shall, however, give the two statements Hudson River N. York and Albany Railroad. profession to its future support. We shall give the We had the pleasure, a few evenings since, of report entire, and have something more to say in rehearing Mr. Jervis read his report, in presence of a lation to the relative merits of the two routes.

Atmospheric Railway in the United States. in railroads could not afford to do without it. Such track may be made to alternate with the middle of

The seed has taken root and the tree will be of raplant in this country predicts otherwise.

We are led to these remarks from reading the following extract from a letter, dated Ithaca, January 21st. 1846, from Mr. W. R. Casey, who has been relocating a part of the route of the old Ithaca and Owego, or as it is now called, the Cayuga and Susquehanna railroad.

To many of the readers of the Journal it is known that the ascent, from the Cayuga lake to the summit nal, as level, is about 600 feet, which was mainly overcome by an inclined plane at an angle of about 40°, [we speak from recollection only] which has not been found either convenient or safe; and the present proprietors, are about to re-locate the road and distribute this heavy gradient over the first three or four miles and it is upon this new line that Mr. Casey proposes to introduce the atmospheric principle of traction.

It will be seen by the last number of the Railroad Journal, that Mr. Casey is fully borne out in his views, by Messrs. Brunel and Vignoles, both of Iron Tie-bars instead of Wooden Cross-ties. whom recommend the adoption of the atmospheric on the Blackburn and Bolton road, even though it dated, "Philadelphia, January 20th, 1846." was chartered and partly graded for a double track For the American Railroad Journal. locomotive line, where they have to take a heavy trade over an elevation of six hundred feet in seven per that I should state, more fully, that the distincmiles; and we do not hesitate to say, that if Mr. tive feature in this track, is the combination of longi-Casey is sustained in his views by the directors and tudinal bearing timbers, [which support the iron rails] is entrusted with the construction of the work, it will with iron cross-ties, instead of wooden ones, which is be eminently successful, and not only be the most the old and usual plan. The details of the plan economical and efficient plan they can adopt but admits of various modifications, more or less peralso a curiosity in itself which will attract thousands feet, and more or less cheap; which is looked to more of visitors to their village to examine and pass over than to perfection. I have, however, matured the it, as has been the case at Dalkey, and will be at details of a track on this plan that will be very cheap, Croydon and other roads in England, constructed and, also, free from any mechanical difficulty in conupon this plan. Mr. Casey says:

the atmospheric system of traction on three or four can character, in laying it round curves of the road; press our gratitude. We doubly value documents miles of the Cayuga and Susquehanna railway, and, as I have previously noticed, in my former of this kind which reach us early, and shall always where I believe it will effect a saving in first cost as communication, a bar two inches wide is besides give such the earliest insertion that our previous well as in subsequent expenses, besides adding to the quite too narrow to join the ends of the rails upon, arrangements will admit of. We feel that the Railcapacity and increasing the efficiency of the entire The tie-bars used by Mr. Reynolds are 2 inches road Journal is the legitimate channel for their first work. Out of the coal regions there are few rail- wide and 1 inch thick. This form is simple, and it appearance and when others evince similar opinways in the United States where this kind of power is of the exact dimensions of the flat tie-bars shown ions, by furnishing us with one of the first copies can be advantageously employed, even in part, as on the drawings annexed to my patent, but it is the mere cost of the pipes and fixtures equals that neither the most economical, nor is it the best proliest possible insertion in the Journal, and this reof a first rate railway, with a single track, complete portion that the material in the bars can be disposed port of the Michigan Board would have appeared in in all its parts and prepared for an extensive busi- in. For instance, a round tie-bar ‡ inch in diameness. At Carbondale it will be invaluable and I ter, will be of sufficient strength to hold the track in was occupied by other matter when it came to hand. was glad to find, on a visit there nearly two years gauge, and will contain less than half the material But when the Journal is not recollected, until persons since, that the engineer of the Del. and Hud. coal in the 2 inch wide bars; but say half. Now, if we less connected with the cause are supplied, and we company, Mr. Archbald, was fully alive to its im- take the remaining half of the bar, which will be are furnished indirectly, instead of, as we should be, portance. It might perhaps also be advantageously about 72 inches long, 1 inch wide, and 1 inch thick; directly with a copy, we shall consult our own conused in the immediate vicinity of our large cities, or equivalent to two plates, each 6 inches square and venience, in publishing or noticing the report. We where frequent trains and great speed are necessary half an inch in thickness, we shall have suitable are always obliged to our friends for the loan of docufor the accommodation of the public, and therefore, indispensable to permanent success; but the general chairs' for the joints of the rails; and by attaching extensive association with gentlemen in the manintroduction of the atmospheric system into the Uni- the tie-bars to these chairs, by a simple swivel joint, ted States is out of the question for the nineteenth all mechanical difficulty in constructing the track is century at least."

We shall furnish further and important information on this subject, in the Railroad Journal from time to time, and feel quite confident that this first rails on the one side opposite the middle of the rails lication or notice in the Journal is not desired, and movement will be followed by others of a similar on the other side of the track. But this takes doucharacter and that the atmospheric railway will become common in this country. We shall see.

is quite interesting to us, and useful to our rea- placed opposite. By using the a inch round tie-bar, length of time, even when received at an early day ders. Enough such would enable us to enrich the instead of the broad flat one, the same quantity of after publication, and in atonement for these cases of columns of the Journal to an extent which would material will produce double the number of tie-bars, omission we have only to say that it is our intention insure its wide circulation-because those interested and the joints of the rails on the opposite sides of the to mend our habits, and to be, hereafter, as prompt

pid growth, even though he who cultivates the first fitted by railroads would adopt the first two lines, and act in accordance therewith, of this letter.

For the American Railroad Journal.

"ROCHESTER, JANUARY 21, 1846.

for the ensuing year. Having just made out the re- lieve, between the heads of the wooden pile track; quired annual report of the Tonawanda railroad, I give you such items as I see you insert in the Jour-

Length of road	431 miles
Cost	751,053 28
Loans and debts	140,000 00
Number of shares	00 issued.
There are besides 1,500 reserved shares	not issued
Amount paid per share	\$100
Income for 1845—gross\$	116,670 60
" net	79,664 48
Dividend for year 1845	per cent.
Yours respect	ully."

Extract from a letter from Mr. James Herron,

"In regard to my iron tie-bar track, it may be pro-"It is my intention to recommend the adoption of nolds, will present serious difficulties of a mechanic ed-for which considerate kindness we desire toex-

"The most approved arrangement of the joints of the rails in a track, is to place the joints of the ble the number of tie-bars, as there should be a tie- fort to give them an early notice. bar at each joint. From the number of tie-bars used by Mr. Reynolds, I infer that the rails he has The following letter contains, in duplicate, what used, are only 15 feet long, and that the joints are important reports to remain unpublished for a

would be the result if only one in ten who are bene- the bars. The arrangement of the joints opposite each other, is, however, the cheaper, and it may be found sufficient, as it will be much superior to the wooden cross-tie tracks.

"Iron cross-ties had been previously used to keep "I enclose five dollars for the Railroad Journal the stone blocks from spreading: and, also, I bebut I claim to have originated the plan of track in which longitudinal timbers, under the rails, are, with the latter, held in gauge by iron tie-bars."

#### To Contractors.

We would call the attention of contractors to the following notice of the PROVIDENCE AND WORCES-TER RAILROAD COMPANY.

"The route of this road will be prepared for examination by contractors on the 16th of Eebruary, and proposals for the graduation, masonry, bridges, timber, spikes, chains, etc., will be received after that date, until the 25th of February.

"Blank proposals, with specifications attached, may be obtained, and the profiles examined, at the offices in Worcester and Providence, after the 16th of February.

"T. WILLIS PRATT, Engineer."

The prompt and energetic action of this company indicates a determination to have their road completed in the shortest possible time. It also shows clearly the difference between the difficulties of getting a project under way at this day, and fifteen years ago. This road, we venture to say, will be in use in less time, from the application for a charter, than was usually spent in preliminary operations for a road of equal length fifteen years ago.

nnual Report of the Michigan Board of Internal Improvement,—We have received a copy struction. The modification, described by Mr. Rey- of this report-even wet from the press and unstitchwe shall reciprocate the favor by giving it the ear-No. 4, or January 24th, but for the fact that our type plates, or by turning up the edges, 'wrought iron ments which, from their greater enterprise, or more agement of railroads and canals, they receive in advance of the Journal, and shall be gratified to reciprocate their favors; but, when reports reach us through such a medium, instead of coming directly from those who issue them, we apprehend that a pub-

We now owe it to ourselves to acknowledge that we have in some-quite too many-cases allowed

as our reports Should which deavor

To the Mic nal im spectfi made nual c tary o the pa tion o cludes Kalar impro Flint been secuti gresse roads time 1 ty in forese Notw ces, s finish six or miles will b four the tv

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as our limits will allow, giving at least one or more Southern railroad proper. \$904,886 03 reports each week when we have them in hand. Should we not do so we deserve to be neglectedwhich we do not intend to permit-as we shall endeavor not to deserve.

OFFICE OF INTERNAL IMPROVEMENT, ? Detroit. December 1st, 1845.

To the Hon., the Legislature of the State of

Michigan: The undersigned, commissioners of inter-nal improvement, in accordance with law, re-in the office of the chief engineer, to the made in the engineer corps since our last an-added. nual communication, and the former secretary of the board is still continued. During the past year the board have had under contract forty four miles of railroad, the completion of sixteen miles of canal, which also in-cludes the contract for locking Clinton and been in most respects propitious for the proare as follows:

Central road..... \$413,916 41

Of this sum there has been received and disbursed under the administration of the present board, within the last nineteen months, four hundred seventy-eight thousand, five hundred eleven dollars and eighty-four cents. Within the time last before mentioned, the stock of the Central and Southern railroads have been increased, two hundred four thousand eight hundred ninety-four dollars and eighty-two cents, to wit:

Central road ...... \$150,365 92 Southern do ....

This is over and above the amount paid for construction in internal improvement and cate of the acting commissioner, and for which amount we respectfully refer the legislature to the report of auditor general.

and furniture of the road and shops, including materials on hand, are as follows:

Add ten per cent, interest during con-183,704 63

1,035,102 05 Interest as above . . . . . . 90,488 60 1,125,590 65

Total value of both roads . . . . . . . . . . \$3,363,880 37

In addition to the above sum, the invoice spectfully report. No changes have been amount of one thousand dollars, should be

> The destruction of West Lowell bridge, which occured on the 23d of August, resulted in the following damage and loss:

Kalamazoo canal into Clinton river, and the trips with but slight interruption, but very foreseen delay in the receipt of iron and spike, and careful examination of engineers and memiles in successful operation at that time, road, is undoubtedly to be classed among those streams before named have been thoroughly examined and strengthened, and no fears are entertained of any present danger. Nevermust all be rebuilt.

Since the date of our last annual communication, the car-honse at Ann Arbor, with a large amount of private property has been destroyed by fire. This calamity was occasioned, it is supposed, by sparks from the enn the plastering to the under side of the roof. The original cost of car-house was about six thousand dollars, and the value of the fixtures To supply the wants of that station a cheap at an expense of seven hundred and seventy-

Central railroad has made it necessary to con-The present cost and value of the railroads, struct several new side tracks, especially in the interest upon its cost, immediate vicinity of mills, and very much \$2,054,585 09 receipts of the road.

ted, and the iron is now being laid. At the date of our last annual communication to the legislature, it was suppssed that twelve thousand five hundred dollars would fit the road for the iron as far as the village of Tecumseh. This belief was founded upon the presumption that a long and expensive bridge over the valley of the river Raisin could be reof sundries in the internal improvemen office, paired and made safe for the passage of a train of cars for about seven hundred dollars --Upon a closer examination, however, it was thought to be impracticable to repair it, and the board decided to erect another bridge, and in this way \$5,160 of the appropriation was absorbed, leaving a balance of \$7,340 which has all been expended upon five miles of the road. There is still due the contractors upon The passenger cars made regular daily of \$1,577 49. Most of the road north of the bridge (four miles) has been renewed by the improvement of the navigable portions of the great delay and difficulty was experienced in Flint and St. Joseph rivers. The season has forwarding freight. A large number of men of the engnieer having charge of the road. were industriously employed for twenty-six and it is balieved to be well done. The timely aid afforded by the patriotic citizens of Tesecution of these works, and they have prodays without interruption, and, until the ly aid afforded by the patriotic citizens of Tegressed in a satisfactory manner. The rail-breach was repaired. The bridges upon the roads would have been completed by this Rouge and Huron have always been to the completion at least twelve months sooner than time to Kalamazo, had there been no difficul- board a source of lively anxiety, and they it otherwise would. The amount of their exty in procuring sawed timber, and some un- have frequently been subjected to the close penditures is \$3,739 62. There is about one thousand dollars due for engineering, well-dig-Notwithstanding these untoward circumstan-ces, some sixteen miles of the road are now ing them unquestionably safe had been spared, and the failure of the one in question, though six or eight weeks. The whole number of disastrous to the character and revenue of the hundred and fifty two dollars in land warrants. The parties to whom this amount is payable will be two hundred and twenty-two, seventy- providential occurrences which no human rely upon the justice of their claim in enlistfour of which will have been added within foresight could anticipate or avert. The pre- ing the early action of the legislature, and the the twenty-two months last past. The re-sent bridge is remarkably well planned and board respectfully recommend a provision for ceipts from the Central and Southern roads, built, and the materials used were selected its payment. Could this branch have been the only paying works for the last two years with great care. All the bridges over the completed by the 10th of August, its receipts would have more than confirmed the favorable opinion we expressed in our last report. There have been manufactured and forwartheless, the time is not very distant when they ded from the two mills at Tecumseh the past autumn, 26,133 barrels of flour. The number of bushels of wheat sent to Monroe and Adrian by teams is not definitely known, but the quantity is exceedingly large. To above add the flour made at Clinton, Manchester, Brooklyn, Jefferson and other points, whose gine finding their way through some crevice natural outlet would be this road, besides the large amount of merchandize which would have been carried over this road to these flourishing villages. The destination of the connected therewith was, as nearly as can be flour of the Manchester mills for the last three ascertained, about one hundred dollars more. years has been such that it has paid no revenue to the state. The owner says, "my flour water-house and wood shed are being built, for the last three years has all gone to Toledo, all of which would have gone to Tecumland warrants, which are issued upon certifi- five dollars, which will answer all the indis- seh had the railroad been completed to that pensable demands of business for some time. place." This branch will prove to be an im-The increase of business on the line of the portant addition to the Southern road, and may always be relied upon for more than the

Application will be made to the legislature to extend some others which were construct. for an appropriation to repair and iron the Central road, as per auditor's books. \$1,837,046 29 ed when the road was built. The expenses Palmyra and Jacksonburg branch of the loop purchase of 1843, '44 and '45.... 103,071 53 of this work have been charged in the consultant of the pair and iron the Palmyra and Jacksonburg branch of the Southern railroad to the village of Clinton, 5 struction account and been paid for out of the miles porth of Palmyra and Jacksonburg branch of the miles porth of Palmyra and Jacksonburg branch of the miles porth of Palmyra and Jacksonburg branch of the pair and iron the Palmyra and Jacksonburg branch of the Palmyra and Jacksonburg branch of the Southern railroad to the village of Clinton, 5 struction account and been paid for out of the miles porth of Palmyra and Jacksonburg branch of the pair and iron the Palmyra and Jacksonburg branch of the Southern railroad to the village of Clinton, 5 struction account and been paid for out of the miles part and iron the pair and iron the palmyra and Jacksonburg branch of the pair and iron the palmyra and Jacksonburg branch of the palmyra and Jacksonburg of this work have been charged in the con-struction account and been paid for out of the miles north of Tecumseh, its present termination. This road, when in the hands of the The Tecumseh branch of the Southern company, was completed and used upon wood-

twenty-two thousand were contributed by the the limited number of our engines and cars! the citizens of that place in the completion of the work, and their faith in the profitableness ble argument in favor of now completing the road in connection with the Southern road, that the business that would be done upon it, would pay the interest of the amount now required to put it in operation.

An estimate was made by Mr. Hart, the engineer upon that branch of the Southern road, at the request, and in behalf of the citizens ef Clinton, of the amount necessary to fit the five miles between Clinton and Tecumseh for iron. He reports 6,847 acres of land as heretofore appropriated, sufficient for that purpose. Should the legislature appropriate 8,000 acres of land, and ten thousand dollars for the purchase of iron and spike, it it would give \$20,000 as the amount necessarary to put the road in operation. Seven per cent interest upon this sum, would produce From statements furnished the board as obtained from the actual business done at the several mills, whose business would be done upon this road, if it were completed to Clinton, we select the following: The Atlas mills made and sent off 8,000 The Atlas mills made and sent off 8,000 none being at hand. The Reading railroad, full of truth, and instruction to those who are which cost ten millions of dollars, is enabled disposed to learn that we give them a place The Manchester mills over 8,000, the Jefferson and Brooklyn mills 4,000 each, and the cars on their return trips are generally the Novelty mill 3,000, within the same period. Had it not been for the low stage of water, 12,000 barrels at least would have United States. The cost of transporting coal, up a "main stem," or trunk, from which branders soon been floured in the time mentioned in each of including repairs of engines and cars, for 94 the mills at Clinton and Manchester, and a miles upon this road, is less than forty cents like increase at the other mills. Estimating per ton of 2,240 lbs., and the average load this at one third of the year's business at the above mills, the Clinton and Manchester mills three hundred and eighty tons. The average would furnish annually for transportation cost of renewals and repairs of freight cars, from Clinton, from 24,000 to 36,000 barrels, as appears in the company's report of last say 30,000 barrels each, and the other mills year, is 5.9 cents per ton hauled. The aver-000 barrels af flour yearly, which, at 3 cents cluding repairs of engines and cars, is 92 a barrel for the five miles, would yield \$2,- 15-100 cents. 700, or at 2½ cents, would give \$2,250. The wheat that would probably be sent off in train, including repairs of road and wear and bulk, is estimated at 80,000 bushels, which tear of machinery upon the Fitchburg railat one cent a bushel, would give \$800 and estimating all the up freight at say \$1,000 it would make the gross receipts, without a cent for passengers, or for carrying the mail, about the companies of t for passengers, or for carrying the mail, about that this road was entirely new, and that it After deducting one-half for expenses, and \$600 for over estimate, we still have remaining the seven per cent. interest upon Total number of miles run by locomotives, world and the new, and we were almost stathe appropriation asked for. From what cursory personal examination the board have been able to give to the proposed extension, same test for the fiscal year now closed, it us a new facility for the transaction of our they are satisfied of the correctness of the above data.

the produce which has been brought to the hundred an twenty-three miles, the number er in the world. Five years ago, Boston had Central railroad, since the late abundant har- of miles and the period of time following: vest, 7 locomotive engines, and 96 cars and railroads centre here, racks have been running night and day, for three months. The disaster at Lowell, no doubt occasioned some accumulation of flour and grain at the western stations early in Sept. and grain at the western stations early in Sept. Marshall to Battle Creek. 13
Nevertheless, the character of the road, and

citizens of Clinton and vicinity. But this must have prevented the prompt removal of dilapidation of the Central road, and of the fact, though showing the deep interest felt by freight, had there been no such impediment, machinery and cars, an account of there has The board are fully convinced, that a railroad ving been much longer in use than the before through the central tier of counties to be used mentioned road, the legislature will readily of the investment would constitute but a fee- for freight, and the stock of which should be discover how much greater is the expense of good to its owners, and achieve the object of doing business upon a plate road, than upon its construction, must be built in the most sub- a T or H railroad. unless from authentic data it could be shown stantial manner, and laid with a heavy T or H rail. The best of flat bar roads are of too slight a structure for a heavy freighting business, (such as must ever be done upon the Central road,) as they soon get out of repair and become so uneven, that trains passing rapidly over them, are liable to be, and often are, thrown off the track. The repairs of machinery and cars consequent upon a rough anticipated from a gentleman of his intelliroad, even where they are so fortunate as to gence, enlarged views and honest old fashionkeep the track, is at least four times greater ed patriotism. It is concise-filling only a than the like repairs of machinery and cars running upon the smooth and solid surface of a T rail.

The Lancaster and Harrisburgh railroad company report the annual expenditure for plate rail portion of their road, while the repairs upon that part laid with the T rail was only \$75 per mile. It may be proper to say that this statement which is believed to be to make money for the company, although This estimate would give 90, age cost per ton on the Central railroad, in-

> road, as appears by the company's report of producers of our food, our easiest communiwas not in operation for the twelve months was shut out from the advantages of the fertipreceding the report, but a part of that time. lizing tide that was flowing between the old 55,324.

Total ..... 123 miles.

By making a just allowance for a greater

[To be continued.]

Boston, its Enlightened Mayor, and New England Railroads.

We find, in the Boston Courier, the address of the mayor, Josian Quincy, Jr., on the organization of the new city government, It is a a whole, just what might have been column and a half of the Courier-yet it touches upon all the important topics falling under the supervision of the city authorities, showing that he understands his position and repairs, at 425 dollars per mile, upon the duties, and also that he intends to discharge them with fidelity.

After referring, in detail, to matters requiring the attention of the councils, he speaks correctly made, rests upon recollection, and of Boston as it was a few years ago-as it is not made on reference to the printed report, now is, and of its future. His remarks are so disposed to learn, that we give them a place in the Journal, in the hope that they may ches put out in every direction and are soon loaded with seed, thus returning to the cultivator a thousand fold for his labor. So is it with Boston, from the construction of numerous railroads, and so will it be with New York when she pursues a similar wise policy. He says that:

"A few years ago, Boston had no facilities for communicating with the interior. And when the west and the north began to develope their vast resources, and become at once the consumers of our manufactures and the

-to them, our merchants resorted-our city tionary, while other cities progressed. But By subjecting the Central railroad to the the railroad has changed all this, and giving gives the expense of running the road per old business, has created and developed new mile, 61-8 cents; whole length of the line and incalculable resources, and given perhaps In the vain attempt to bring forward all in operation some portions of the year, is one a greater impulse to our city than to any othcomparatively no back country. Now 900 " Nov., 1845. know of no prouder position for a city, than to be the point that concentrates the energy

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neces ber th that v telligent and virtuous freemen—of Americans, natives of the soil, who promote her prosperity in peace, as readily as their fathers defended her in war.

"Considered in this light along the rose of the soil, who are acquainted with the particulars of the property of the probable description of our city.

"The effects of a wise and liberal policy all who are acquainted with the particulars of the negotiation are willing to award the credit of having the considered in this light along the rose of the soil, who promote her probable description of the probable

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on the shores of lake Erie, five hundred miles

Pacific. The time may come when the expectation that led Columbus to seek a passage to India from Europe by proceeding west, will be realized, and the direct communication between those points may passthrough the city of Boston.

"Such facilities of intercourse, joined to its interests, cannot but be prosperous. the character and wealth of our population, render the progress of the city a matter of certainty. Occupying the nearest point to Europe, and connected with the north, the west, and the south, by thousands of miles of internal communication, her increase will surpass the most sanguine anticipations of her friends.

"If such are the prospects of our city, how are the prospects of our city, how the election of directors and officers. The demand for the stock exceds the supply, and at this time we know of several who are anxious to pur-

"If such are the prospects of our city, how great is the responsibility of those who from time to time are invested with the power of improving and preparing it for the multitudes by whom it will one day be occupied! We regret that our fathers did not anticipate the progress, and lay out thoroughfares and squares that are even now called for by the necessities of the inhabitants. Let us rememnecessities of the inhabitants. Let us rememnecessities of the fathers of the generations that will succeed, and that we have not the

"Considered in this light alone, the posi-on of Boston is one of present power, with find natives of New England. And you will sale of this road to these northern capitalists. tion of Boston is one of present power, with find natives of New England. And you will a certainty of rapid advancement. But her find them among the most active and influenconnections already stretch far beyond New tial members of their respective communities. England—she is on the high road between These turn towards the capital of their native Europe and the west; and that vast country section, as to a place whose wealth, whose country has become tributary to her increase age, and the character of whose citizens enti-The car that leaves our city this morning, the it to the honor, and impose on it the duty may deposit its merchaneize in thirty six hours of setting an example to its younger sisters.

"Let us then, gentlemen, enter upon the inland seas, navigable for vessals of the lar-nation to advance the present and future in-"Canals already connect these lakes with moting everything that may tend to the phythe valley of the Mississippi, and with the sical convenience and comfort of the inhabi-direction. It should be there. navigable waters of her, and her tributaries, which, extending 20,000 miles, communicate lightful for a temporary, and eligible for a with 40,000 miles of shores unrivalled in fertility.

Railroad Meeting.—The railroad meeting at the court house, on Saturday night, December 27th, says the Louisville democrat, was well attended, and the manifestations in favor of proceeding at once the manifestations in favor of proceeding at the manifestation in favor of proceedi

ways that are to increase the prosperity of Boston. There are already in process of con- of brass, and hung in the private apartment of the road from Frankfort to Louisville. Boston. There are already in process of construction, roads stretching towards Montreal, Burlington, Ogdensburgh—roads branching from Albany will reach Kingston, and extend thence through Canada West—others running from Buffalo to Detroit on both sides of lake Erie, will ere long reach the upper sources of the Mississippi—and the child is now born who will see them terminate at the Pacific. The time may come when the extended of the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate at the process of the Mississippi—and the child is now born who will see them terminate to the business of Louisville.

After the reading of the petition, Mr. W. J. Graves rose and spoke very warmly in favor void of a kind regard for the poor, even though they are not always boasting of what they do tucky are at length moving in this matter. They not practice-of being mindful of the best in have delayed quite too long-they should therefore terests of the dear people. Boston, under such councils, and with such men to watch

and wealth of such a body of industrious, in- apology of being ignorant of the probable des- means and well known enterprize, more will be ac-

It has come to our knowledge, that the services of Mr. Cowles were requested as a director in the reorganization of the company, but he deferred to others from considerations which are properly appre-

We like to see these onward movements, and therefore give place to the foregoing from the Macon Messenger, of 8th January. Those who projected, and were mainly instrumental in carrying through, from the place of its departure-from thence several duties of our stations with the determi- this movement, deserve the thanks not only of the people of Macon, and along the line of the old Mongest class, stretch away for hundreds of miles terests of the city of Boston, by proposing to realroad, but also of Savannah, and all who dealong shores fertile for agriculture, or rich ourselves the highest standard in intellectual, sire to travel this route; and conspicuous among the moral and religious training, and by promo. number stands Mr. Jerry Cowles, of Macon; and we only regret that his name does not appear in the

with 40,000 miles of shores unrivalled in fertility.

"But more rapid modes of communication will this year be opened. The railroad from Cincinnati to Sandusky, built by the aid of citizens of Boston, will bring the Ohio within a journey of three days—enabling the traveler to reach Boston from Cincinnati in twelve hours less time than he can Baltimore, although the latter place is 300 miles the nearest.

"But these are but a small part of the rail-should be printed in letters of gold, on plates"

"But these are but a small part of the rail-should be printed in letters of gold, on plates"

"But these are of shores unrivalled in permanent abode, and do our part in handing down the blessings we have received, to those to complete the railroad to Lexington were strong and unanimous. After the meeting had been called to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed on Tuesday evening. It consisted of the form of a petition to the legislature, praying the passage of such a charter as will, 1st, authorize the old Lexington and Ohio rail-road company to proceed in the work; 2d, provided to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, Mr. Guthrie read the report of the committee appointed to order by the chairman, M

After the reading of the petition, Mr. W. J. Graves

We are gratified to learn that the people of Kennow move with the more spirit, and the greater energy. Nor should they stop with completing a railroad to Louisville. That short road between Louisville and Lexington should be only the first section in the several lines of railroad in Kentucky. Let the prominent men of the state turn their attention to such works rather than to politics. The former will benefit the people- the latter usually debases the individual.

Macon and Western Railroad Company, Georgia;
—This company, the purchasers of the Monroe railroad and franchise, was yesterday organized under
the amended charter, when the following named
gentlemen were elected to manage its concerns:

track, and with a heavier rail than is now used upon

any road in the country.

We also understand that, desirous of sustaining American manufactures, the contract has been made for the rails with a rolling mill in the vicinity of the road, and that the necessary quantity will probably be furnished during the ensuing spring and summer. When this road is thus completed, there will be no

difficulty in travelling at the rate of thirty miles an hour with perfect safety, if required. The time of passage between the cities has been reduced of late passage between

This is as it should be. Let them also lay a double track from Trenton to New Brunswick, and then we may go to Philadelphia in four hours at the most, and not be obliged to back and fill along the canal, out of pure politeness to those whom we expect to

The Iron Trade .- A new anthracite iron furnaces says the Baltimore American, owned by Peter Hal-deman, Esq., was put in blast near Columbia, Pa., last week. It is calculated that 80 tons of iron will be turned out at these works each week. The engine of 60 horses power, was built by Mr. John Watchman, of this city, and is said by the Columbia Spy to be one of the best ever made in the Uni-

An extensive mine of superior coal, supposed to be the cannel coal, has been discovered near Falling Rock creek, a branch of the Kanawha river, sixteen miles from Charleston, Va., and about one mile from navigation. The Cincinnati Atlas, speaking of the discovery of the vein, says: "It is well situated for distribution to all places below the mouth of the Kanawha, and if it proves to be extensive, and of the quality indicated, it will form a valuable addition to the fuel of the Ohio valley, and greatly contribute to the comforts of the Queen city."

#### Railroad Items.

The steamer Narragansett, with the mails, says the Tribune of Thursday, 22d, arrived yesterday morning at seven o'clock, from Stonington—the railroads have been freed from the ice which obstructed them on Saturday night.

This speaks well for the energetic management of of the Boston and Providence and Stonington roads We had seldom had a more severe storm in this vicinity and delays might be tolerated now if ever— ken, but from the par-and we are therefore the more gratified to find that cinity and delays might be tolerated now if everthe traveller is not now as formerly, before the birth struction, the accident of railroads, liable to be detained any great length of to any of the passentime even by the most severe falls of snow.

The Danville Railroad.—About fifty thousand dollars' worth of stock of the railroad from Danville to Shamokin, says the Ledger was subscribed at Danwas student at Dan-ville during the three days on which the books were opened. It is stated that the different iron compa-nies at the former place have agreed to furnish the iron for the road, the pay for which they will re-ceive in toll. This being completed, there would be but about 28 miles of road to be made to connect the Pottsville road with the Susquehanna.

We like the spirit of the Danvillers. They will he same kind of acciinsure the construction of their road by thus leading in the important measure of subscribnig for the stock -this will give confidence to others.

Utility of Railroads.—"They advertise Berkshire charcoal," says the Boston Courier, "on a large scale, with storehouses, agencies, etc. It is brought, as we suppose, by railroad, from the extremity of the state, from the rough mountains of Berkshire.

"This mode of sending the forests to market, will be profitable in many other places. The interior can thus convert into cash, what would otherwise be too heavy, with its great bulk, for distant transpor-

were introduced.

Philadelphia, Wilmington and Baltimore.—At an Philadelphia, Wilmington and Baltimore.—At an Philadelphia William Subscribers, Sole Agents election held for directors in the Philadelphia, Wilelection held for directors in the Philadelphia, Wil-mington and Baltimore railroad company, says the Ledger, the following named gentlemen were cho-sen: Pennsylvania—Edward C. Dale, M. Brooke Buckley, John A. Brown, A. J. Lewis, C. H. Fishsen: Pennsylvania—Edward C. Dale, Buckley, John A. Brown, A. J. Lewis, C. H. Fisher. Delaware.—James Rodgers, Geo. Bush, Mahlon Betts, Wm. R. Sellers, Merrill Canby. Maryland.—J. J. Cohen, Jr., Hugh McEldery, Thomas Kelso, Joseph Coudon, John C. Groome. And at a meeting of the board of directors, the following officers were unanimously elected: Edward C. Dale, president; J. J. Cohen, Jr., vice president; A. Campbell, secretary and treasurer.

Yaney,
Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, for which purpose the above makes of Pig Iron are particularly adapted.
They are also sole Agents for Wa'son's celebrated Fire Bricks and prepared Kaolin or Fire Clay, orders for which are promptly supplied.

SAM'L. KIMBER, & CO., 59 North Wharves, Jan. 14, 1846. [1y4] Philadelphia, Pa.

O LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works, Philadelphia. Welded Wrought Iron Flues, suita-ble for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also, Pipes for Gas, Steam and other purposes; extra strong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufac-ture! and for sale by MORRIS TASKER & MORRIS,

Warerouse S. E. corner 3d and Walnut Sts., Phila-

for the sale of Codorus, Glendon, Spring Mill, and Pig Iron.

MANUFACTURE OF PATENT WIRE Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by JOHN A. ROEBLING, Civil Engineer,

Pittsburgh, Pa.
These Ropes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope put upon Plane No. 3, Portage Railrord, has now run 4 seasons, and is still in good condition. 2v19 ly Iti tion.

## KITE'S PATENT SAFETY BEAM.

M ESSRS. EDITORS.—
As your Journal is devoted to the benefit of the public in general I feel desirous to communicate to you for publication the following circumstance of no inconsiderable importance, which oc-curred some few days since on the Philadel-phia, Wilmington and Baltimore railroad.

On the passage of the evening train of cars from Philadelphia to this city, an axle of our large 8 wheeled enger car was brogers, or, in fact, to the conductor himself, until the train, (as was supposed from some circumstances attending the case,) had pass ed several miles in advance of the place where the accident oc-curred, whereas had the car been constructed on the common plan

dent would unavoidably have much injured it, haps thrown the whole train off the track, and seriously injured, if not killed many of the passengers.

Wilmington, Del., Sept. 28, 1840.

The undersigned takes pleasure in attesting to the value of Mr. Joseph S. Kite's invention of the Safety Beam Axle and Hub for railroad cars. They have for some time been applied to passenger cars on this road, and experience has tested that they fully accomplish the object intended. Several instances of the fracture of axles have occurred, and in such the cars have uniformly run the whole distance with entire safety. Had not this invention been used, serious accidents must have occurred.

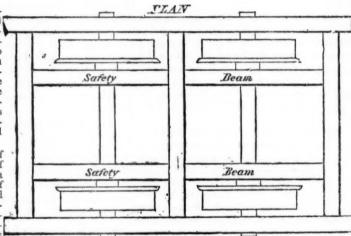
In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country. Wilmington, Del., Sept. 28, 1840.

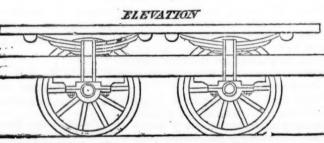
This is one only of the numerous important advantages to be derived by large cities, from railroads.—
There scarcely an article of necessity to the poor as well as the rich, that will not be furnished of better quality and at cheaper rates than before railroads office, No.71 Hanover st., N. York.

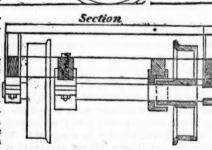
In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country.

JAMES ELLIOTT, Sup. Motive Power, GEORGE CRAIG, Superintendant, W. L. ASHMEAD, Agent.

A model of the above improvement is to be seen at the New Jersey railroad and transportation office, No.71 Hanover st., N. York.







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BOSTON AND MAINE RAILROAD.
Upper Route. Boston to Portland via, Charlestown, Somerville, Malden,
Stoneham, South Reading, Reading, Wilmington, Ballardvale, Andover, North

Reading, Wilmington, Ballardvale, Andover, North Andover, Bradford, Haverhill, Atkinson, Plaistow, Kingston, East Kingston, Exeter, South Newmarket, Newmarket, Durham, Madbury, Dover, Somensworth, South Berwick, North Berwick, Wells, Kennebunk, Saco and Scarborough.

Winter Arrangement, 1845 & 6. On and after Monday, October 20th, 1845, Passenger Trains will run daily, (Sundays excepted.) as follows, viz.

Leave Boston for Portland at 7½ a.m., 2½ p.m. and 3½ p.m. Leave Boston for Haverhill at 7½ a.m., 2½ p.m. and 3½ p.m. Leave Boston for Haverhill at 7½ a.m., 2½ p.m. and 3 p.m. Leave Portland for Boston at 7½ a.m., and 6½ p.m. Leave Haverhill for Boston at 6½ a.m., 9½ a.m. and 4½ p.m. Leave Haverhill for Boston at 6½ c², and 11 a.m., and 6½ p.m.

Special Train.—A special train will leave Boston for Andover at 11½ a.m., and Andover for Boston at 7½ a.m., and 6½ p.m.

for Andover at 111 a.m., and Andover for Boston at per mile.

Goods consigned to S. C. Railroad Co. will be

31 p.m.

The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage at Augusta.

above \$50 in value, and that personal Baggage. unless notice is given, and an extra amount paid, at unless notice is given, and an extra antity the rate of the price of a Ticket for every \$500 additional value.

CHAS. MINOT,
Super't.

PRING STEEL FOR LOCOMOTIVES,
Tenders and Cars. The Subscriber is engagep in manufacturing Spring Steel from 14 to 6 inches at a switch, left wrong by accident or design. It acts independently of the main track rails, being tities are yearly furnished for railroad purposes, and laid down, or removed, without cutting or displacing tities are yearly furnished for rain oad purposes, and fall down, of removed, the description of the establishment being large, can execute orders with great promptitude, at reasonable prices, and the quality warranted. Address

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring

with great promptitude, at reasonable prices, and the quality warranted. Address

JOAN F. WINSLOW, Agent,

j5a3 Albany Iron and Nail Works, Troy, N. Y.

& G. RALSTON & CO., NO. 4

South Front St., Philadelphia, Pa.

Have now on hand, for sale, Railroad Iron, viz:

180 tons 2½ x ¼ inch Flat Punched Rails, 20 ft. long. 25 " 2½ x ½ " Flange Iron Rails.
75 " 1 x ½ " Flat Punched Bars for Drafts
n Mines. A full assortment of Railroad Spikes,

in Mines. A full assortment of Railroad Spikes, Boat and Ship Spikes. They are prepared to exe-cute orders for every description of Railroad Iron 11f

ders with promptness and despatch.

Railroad Work.

Locomotive steam engines and tenders; Driving

and other locomotive wheels, axles, springs & flange

hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; iron and brass castings of all descriptions.
ROGERS, KETCHUM & GROSVENOR,

Paterson, N. J., or 60 Wall street, N. York.

OR SALE AT A SACRIFICE -- A LOCOmotive Engine, 4 wheels and Tender. Cylinders 10 in. dia., Stroke 16 in., Cylinders inside of smoke box. Weight of engine, with wood and water, about 9 tons. This engine and tender are new, and of the best materials and workmanship. If re-

quired, would be altered to a 6 wheeled engine.

Also, 1 20-horse High Pressure Steam Engine.

2 8-horse " " " 2 8-horse " "
1 Upright Hydraulic Press.

All of which will be sold low, on application to T. W. & R. C. SMITH. Founders and Machinists,

erly

r,

May 12tf Alexandria D. C. This Road in connection with the South Carolina Railroad and

the Western and Atlantic Road now forms a con-

forwarded free of commissions. Freight payable at Augusta.

J. EDGAR THOMPSON,

Ch. Eng. and Gen. Age Augusta, Oct. 21 1845. +44 1v

only two Castings and two Rails; the latter, even if much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs. Davenport and Bridges, Cambridge-port, Mass., and at the office of the Railroad Journal, New York.

Plans, Specifications, and all information obtained on application to the Subscriber, Inventor, and Patentee. G. A. NICOLLS,

cute orders for every description of Railroad Iron and Fixtures.

It Works, Morristown, Morris Co., N. J.—Manufactured by them of the most superior description in every particular. Their works beingextensive and the number of hands employed beinglarge, they are enabled to execute both large and small orders with promptess and despatch.

Reading, Pa.

Reading, Pa.

Reading, Pa.

CEORGE VAIL & CO., SPEEDWELL IRON Works, Morristown, Morris Co., N. J.—Manufactured by them of the following articles, made from the best iron, either hammered or rolled, from 1\(\frac{1}{4}\) in thick.—bored and turned outside if required. Railroad Companies wishing to order, will please give the exact inside diameter, or circumference, to which they wish the Tires made, and they may rely upon being served according to order and else with promptess and despatch.

The passenger train will continue, as at present to connect daily (Sundays excepted) with the train from Augusta, and the stage from Griffin.

CHAS. F. M. GARNETT.

23

Chief Engineer.

TITLE MIAMI RAILROAD. — DISMOVEMBER TO ORDER SHOWED TO ORDER SHOWE made, and they may rely upon being served according to order, and also punctually, as a large quantity of the straight bar is kept constantly on hand.—Crank Axles, made from the best refined iron; Straight Axles, for Outside Connection Engines; and other locomotive wheels, axles, springs & flange stries; car wheels of cast iron a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, style and workmanship.

Mill gearing and Millwright work generally; hydraulic and other presses: press acrews: callendard carbon for the control of the most improved patterns, and the control of the most improved patterns, and work for steamboats, and shafting of any size; Grist Mill, Saw Mill and Wright work of all kinds; Steam Saw Mills of simple and other presses: press acrews: callendard for any size; Grist Mill, Saw Mill and place of the most improved patterns, and work for all kinds; Steam Saw Mills of simple and economical construction, and very effective hydraulic and other presses: press acrews: callendard for a size of the most improved patterns. Iron and Brass Castings of all descripions.t ja451y

> TO RAILROAD COMPANIES AND MANufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all sizes; English blister, cast, shear and spring steel; Juniata rods; car axles, made of double refined iron; sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels, motive engines, and other railroad carriage wheels, made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messrs. Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.
>
> When the exact diameter of the wheel is stated in the order; a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside.
>
> THOMAS & EDMUND GEORGE, ja45
>
> N. E. cor. 12th and Market sts., Philad., Pa.

GUSTA to ATLANTA-171 MILES.

This Road in connection with Will leave as follows, viz: will leave as follows, viz:—
Accommodation Trains, daily,

except Sunday. Leave Norwich, at 6 a.m., and 41 p.m. Leave Worcester, at 10 a.m., and 41 p.m.

morning and evening trains from Worcester, con-nect with the Boston, Western, and Hartford and

Springfield railroads.

New York Train, via Steamboat. Leaves Norwich for Worcester and Boston, every morning excepi Monday, upon the arrival of the boat from New York, about 2 a.m. Leaves Worcester for Norwich and New York, at 51 p.m., daily, except

" Flour, bacon, mill machinery etc."
"Molasses, per hogshead \$9; salt per bus... 22"
Passengers \$9.50; children under 12 years of age and servants, half price.
Passengers to Atlanta, head of Ga. Railroad, \$7.
German or other emigrants, in lots of 20 or more, will be carried over the above roads at 2 cents

Rollwin and Alon School, Sunday.

New York Train, via Long Island Railroad.—Leaves Norwich about 3 p.m., for Worcester and Boston, daily, except Sunday. Leaves Worcester for Norwich and New York, at 74 a.m., daily, except Sunday, and arrives in Norwich at 94.

Freight Trains. Daily, except Sunday.
Fares are less when paid for Tickets, than when paid in the cars.

EMERSON FOOTE. Superintendent.

AWRENCE'S ROSENDALE HYDRAlicolle's PATENT SAFETY SWITCH
for Railroad Turnouts. This invention, for
some time in successful operation on one of the pringinal railroads in the country, and has been
ginal railroads in the country of the prinfor Railroad Turnouts. This invention, for some time in successful operation on one of the principal railroads in the country, effectually prevents engines and their trains from running off the track at a switch, left wrong by accident or design.

It acts independently of the main track rails, being soliding for water. In scenent is warranted equal to any manufactured in this country, and has been proficulted superior to Francis' "Roman." Its value for Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in

as it sets immediately solidity for years. For sale in lots to suit rurchasers, in tight papered barrels, by JOHN W. LAWRENCE,

Orders for the above will be received and promptly attended to at this office.

road. The Western and Atlantic Rail-road is now in operation to Ma-rietta, and will be opened to Car-tersville, in Cass county, on the 20th of October and to Coosa Depot, (formerly known as Borough's,) on the 20th of November.

Returning, leaves Xenia at 81 o'clock, A.M.
Freight Trains run daily, Sundays excepted.
At Xenia, Passenger Trains connect with daily lines of stages to Columbus, Wheeling, Cleve-

ly lines of stages well land and Sandusky city.

W. H. CLEMENT Supt. and Engineer.

AILROAD IRON.—THE "MONTOUR Iron Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe, and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO.,

Agents. Corner of Cedar and Greenwich Sts.

GENERAL COMMISSION MERCHANT and Agent for Coal, and also Iron Manufactures, etc.

No. 1 CITY WHARF, Boston. Advances made on Consignments. Advances made on Consignments.

Refer to Amos Binney, Boston.

Grant & Stone,
Brown, Earl & Erringer,
Weld & Seaver, Baltimore.

December 8, 1845.

BACK VOLUMES OF THE RAILROAD JOURNAL for sale at the office, No. 23

NEW YORK AND HARLEM RAIL Road Company.—Winter Arrangement.

On and after November 3d, 1845, the cars will run as follows:

Leave City Hall for Yorkville, Harlem, Morrisiana, and Williams' Bridge,
7 30 A.M. This train leaves 27th st.

Does not stop this side of Harlem. 10 30 " Does not stop this side of Harlem.

11 30 1 P.M. Does not stop this side of Harlem.

3 3<sub>0</sub> 4 30 Does not stop this side of Harlem.

Leave White Plains for City Hall-8:10, 11:10 a.m , and 1.45, 4.10 p.m.

Leave Tuckahoe for City Hall-8.20, 11.20 a.m. and 1.55, 4.20 p.m.

Leave Williams' Bridge for City Hall — 8-45, 11-45 a.m. and 12-45, 2-15, 3-45, 4-45, and 5-45 p.m. Leave Morisiana for City Hall-8, and 9-10 a.m., and 12·10, 1·10, 2·40, 4·10, 5·10, and 6·10 p.m.

The freight train will leave City Hall at 12:45 p.m. and leave White Plains at 11:10 a.m. All freight and teave while Flains at 11 a.m. All Height must be at the City Hall between the hours of 10-30 a.m. and 12-30 p.m. The White Plain trains will stop, after leaving the City Hall, only at the corner of Broome street and the Bowery, Vauxhall Garden and 27th street.

An extra car will precede each train, 10 minutes before the time of starting from the City Hall, and will take up passengers along the line.

The City Hall and 27th street line will run every 6 minutes from 7:30 a.m. to 8 p.m.

The City Hall and 27th street night line will run every 20 minutes from 8 to 12 o'clock.

On Sundays the trains will be regulated according to the state of the weather. ly 46

THE LONDON RAILWAY RECORD, Edited by Mr. John Robertson, A. M., (connected from the commencement with the Weekly Railway press of England.)

If Railway press of England.)

The Railway Record is acknowledged to be the leading English Railway Journal, and is published twice a week in London, namely on Wednesday and Saturday. It contains copious and correct reports (by special reporters) of all railway meetings in the United Kingdom; ample Share Lists and Traffic Tables, showing the length, cost, capital and selling prices in the principal markets, with Editorial articles on the leading Railway topics of the day. The Railway Record contains also, a complete resume of French. Belgian and other foreign Railresume of French, Belgian and other foreign Railway affairs.

Subscriptions 13s. per quarter, to be transmitted in advance to Messrs. Dawson and Sons, Ca. st. London. Office 153 Fleet street, London. 46

BOSTON COURIER, DAILY, SEMI-

Weekly and Weekly.

The Daily edition of the Courier, presents to merchants and others, an extensive medium of advertising. The circulation of the Semi-Weckly Courier (published on Mondays and Thursdays) is Courier (published on Mondays and Thursdays) is believed to be more extensive than that of any other similar Boston Newspaper. This publication embraces all the reading matter of the Daily, the Foreign and Domesuc Markets, Review of the Boston Market, Prices current, and Ship News, prepared with great accuracy. The Weekly Courier contains as much of the matter of the daily as can be crowded into a sheet of the same size, without ship news, prices current or advertisements. ces current or advertisements.

ces current or advertisements.

Our extions to obtain and publish authentic information on all topics proper for the columns of a newspaper,—the state of trade, the prices of merchandize, the current news of the day, and the political movements in the various sections of the country—will not be abated. The marine department of the Courier has been inferior to none in copiousness of accuracy of detail, and it will be our endeavor maintain its reputation in this respect.

For the Daily Courier, for one year, in advance \$8,00
For the Weekly Courier, for one year........ 2,00
JOSEPH T. BUCKINGHAM.

EBIN B. FOSTER.

ESOUNDE SO,000 hate weekly. So Inductive So,000 hate weekly. So,000 hate weekly

BALTIMORE AND OHIO RAILROAD.
MAIN STEM. The Train carrying the
Great Western Mail leaves Baltimore every morning at 7½ and Cumberland at 8 o'clock, passing Ellicott's Mills, Frederick, Harpers Ferry, Martinsburgh and Hancock, conncting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry — with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumand with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Browns-ville and Pittsburgh. Time of arrival at both Cum-berland and Baltimore 5½ P. M. Fare between those points \$7, and 4 cents per mile for less distan-ces. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M.,

WASHINGTON BRANCH. Daily trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 5½ P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances. cents per mile for intermediate distances.

and from Frederick to Baltimore at 8 A. M.

YENTRAL RAILROAD-FROM SAVANnah to Macon. Distance 190 miles.

This Road is open for the trans-

This Road is open for the portation of Passage \$8 00. Freight Freight. Rates of Passage, \$8 00. Freight—
On weight goods generally... 50 cts. per hundred.
On measurement goods ..... 13 cts. per cubic ft. On brls. wet (except molasses

80 cts. per barrel. On iron in pigs or bars, cast-ings for mills, and unboxed

40 cts. per hundred.

On molasses and oil......\$6 00 per hhd.
Goods addressed to F. Winter, Agent, forwarded
free of commission. THOMAS PURSE, free of commission. THOMAS FURNING Gen'l. Sup't. Transportation.

EXINGTON AND OHIO RAILROAD.

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and 9 a.m. from Frankfort, other hours as above.

EARNEY FIRE BRICK. F. W. BRINLEY, Manufacturer, Perth Amboy, N. J. Guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, 4 mos. from delivery of brick on board. Refer to

James P. Allaire, Peter Cooper, Murdock, Leavirt & Co. New York.

J. Triplett & Son, Richmond, Va.
J. R. Anderson, Tredegar 1ron Works, Richmond, Va.

mond, Va.

J. Patton, Jr.
Colwell & Co.
J. M. L. & W. H. Scovill, Waterbury, Con.
N. E. Screw Co.
Eagle Screw Co.
William Parker, Supt. Bost. and Worc. R. R.
New Jersey Malleable Iron Co., Newark, N. J.
Gardiner, Harrison & Co. Newark, N. J.
25,000 to 30,000 made weekly.

35 1y

BOSTON AND PROVIDENCE RAIL-road. Passenger Notice. Winter Arrange-ment. On and after Mon-day, Nov. 3, the Passenger

day, Nov. 3, the Passenger

Trains will run as follows:

For New York—night line, via Stonington.—

Leaves Boston every day, but Sunday, at 4½ p.m.

Accommodation trains, leave Boston at 8 a.m. and 3½ p.m., and Providence at 8 a.m. and 3½ p.m.

Dedham trains, leave Boston at 9 a.m. 3, 5½

and 10 p.m. Leave Dedham at 8 and 10 a.m., and 41 and 7 p.m.
Stoughton trains, leave Boston at 12 m. and

4 p.m. Leave Stoughton at 8-20 a.m. and 21 p.m. All baggage at the risk of the owners theneof. N.B. The last train to and from Boston and Ded-

ham, will be omitted in case of a severe snow storm.

W. RAYMOND LEE, Sup't. 311y

BRANCH RAILROAD and STAGES COnnecting with the Boston and Providence Railroad. Stages connect with the Accommodation trains at the Foxboro' Station, to and from Woonsocket. At the Seekonk Station, to and from Woonsocket. At the Seekonk Station, to and from Lonsdale, R. I. via Pawtucket. At the Sharon Station, to and from Walpole, Mass. And at Dedham Village Station, to and from Medford, via Medway, Mass. At Providence, to and from Bristol, via Warren, R. I. vidence, to and from Bristol, via Warren, R. I.— Taunton, New Bedford and Fall River cars run in

connection with the accommodation trains.

NEW YORK AND ERIE RAHLROAD LINE. For Middletown, Goshen, and inter-mediate places. Two daily lines each way, as follows: For passengers, the new, and commodious steamboat St. Nicholas, Capt. Alex. H. Shultz, will leave the foot of Duane street daily, [Sundays excepted,] at 7½ o'clock, A.M., and 5 o'clock, P.M., through in five hours. Returning, the cars will leave Middletown at 6, A.M., and 4½, P.M. For further particulars inquire of J. Van Rensselaer, Agent, corner of Duane and West streets,

H. C. SEYMOUR, Superintendant.

Stages run from Middletown daily, in connection

H. C. SEYMOUR, Superintendant.
Stages run from Middletown daily, in connection
with the afternoon line, to Bloomingburg, Wurtsboro, Monticello, Mt. Pleasant, Binghampton, Owego, Port Jervis, Honesdale Carbondale, etc.
On Monday, Wednesday, and Friday, to Dundaff, Montrose, Friendsville, Lenox, Brooklyn, etc.,
etc.
31 1y

BALTIMORE AND SUSQUEHANNA Railroad. The Passenger train runs daily except Sunday, as follows:

except Sunday, as follows:

Leaves Baltimore at 9 a.m., and arrives at 6½ p.m. Arrives at York at 12½ p.m., and leaves for Columbia at 1½ p.m. Leaves Columbia at 2 p.m., and leaves York for Baltimore at 3 p.m. Fare to York \$2. Wrightsville \$2 50, and Columbia \$2 62½. The train connects at York with stages for Harrisburg, Gettysburg, Chambersburg, Pittsburg and York Springs.

Fare to Pittsburg. The company is authorized by the proprietors of Passenger lines on the Pennsylvania improvements, to receive the fare for the whole distance from Baltimore to Pittsburg. Baltimore to Pittsburg. Baltimore to Pittsburg. Baltimore to Pittsburg.—Fare through, \$9 and \$10.

more to Pittsburg.—Fare through, \$9 and \$10.

Afternoon train. This train leaves the ticket of-

fice daily, Sundays excepted, at 3½ p.m. for Cockeys-ville, Parkton, Green Springs, Owings' Mills, etc. Returning, leaves Parkton at 6 and Cockeysville and Owings' Mills at 7, arriving in Baltimore at

Tickets for the round trip to and from any point can be procured from the agents at the ticket offices or from the conductors in the cars. The fare when tickets are thus procured, will be 25 per cent, less, and the tickets will be good for the same and follow-The fare when any passenger train.
D. C. H. BORDLEY, Sup't.
Ticket Office, 63 North st. ing da

DAVIS, BROOKS & Co., 30 WALL ST. Have now on hand and for sale, 200 tons 21 x 1 inch Flat punched Rails, Bars 18 feet each.

30 tons Heavy Edge Rails, 90 tons per mile.
30 tons 2½ x ¼ inch Flat Rails.
Alsc—A STEAM PILE DRIVER, built by "Dunham & Co." which has never been used, and cost originally \$5000.

H ing in ways, is effect load th superi gain a ioad o combi track, any ot 3d, As saving and tel elastic life, ar engine of jar emban of the of mot

> to aug The tity and exceed the ave Genera mansh from \$ of fron

comfor perfect transit.

travel.